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Supplement 4

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(July 1978 through March 1992)

J. R. Fuhr and A. Lesage

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²Some elements at Boulder, CO 80303.

NIST Special Publication 366

Supplement 4

Bibliography on Atomic Line Shapes and Shifts

(July 1978 through March 1992)

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January 1993



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BIBLIOGRAPHY ON ATOMIC LINE SHAPES AND SHIFTS

(July 1978 through March 1992)

J. R. Fuhr and A. Lesage

This is the fourth supplement to the original NBS Special Publication 366, *Bibliography on Atomic Line Shapes and Shifts (1889 through March 1972)*. It contains 1964 references and covers the literature from July 1978 to March 1992. As in our previous publications, the bibliography consists of five major parts: (1) Part 1 is a section containing papers of general interest, many without numerical data. These papers are catalogued according to the broadening mechanisms (and further, according to special topics under several of the mechanisms) and as to whether the work is a general theory, a general review, a table of profiles or parameters, a comment on existing work, a study of general experimental measurement techniques, or an experimental effort of general importance. Also included are selected papers on important applications of line broadening and on miscellaneous topics related to atomic spectral line shapes and shifts. (2) In Part 2, all papers containing numerical data are ordered according to element, ionization stage, and broadening mechanism. This section is divided into two parts: Part A--All mechanisms except for van der Waals broadening, and Part B--van der Waals broadening. In the case of foreign gas (van der Waals) broadening, the perturbing species are listed. Furthermore, it is indicated whether the data are experimentally or theoretically derived. (3) While in the two preceding parts of the bibliography the references are listed for brevity by identification numbers only, in Part 3 all references are listed completely by journal, authors, and title. In addition, the papers are arranged by year of publication and alphabetically by the first author's name within the year. (4) Part 4 contains a listing of all authors and their papers, as identified by the reference numbers from Part 3. (5) Part 5 provides corrections and/or additions to the third supplement of the original bibliography.

Key words: Atomic; instrumental broadening; line shapes; line shifts; pressure broadening; resonance broadening; Stark broadening; van der Waals broadening.

A. INTRODUCTION

Since 1978, when our last bibliography [1] was published, the Data Center on Atomic Line Shapes and Shifts has continuously monitored the literature and collected relevant papers in the field. This process included scanning approximately 140 journals plus Chemical Abstracts on a weekly basis. This is the fourth supplement to our original bibliography [2], and it contains 1964 papers in the field of atomic spectral line broadening, including all papers that were received by the Data Center between July 1, 1978 and March 31, 1992. These references provide numerical data, reviews, or comments of general interest. Included here are a few older references that were omitted from our earlier publications. As before, we have provided an errata section (Part 5), which consists of corrections and additions to Supplement 3.

B. ACKNOWLEDGMENTS

We would like to express our great appreciation to Mme. J. Jorand and Mr. F. Leysour of the Observatoire de Paris at Meudon, France. Mme. Jorand diligently entered all references into the database, while Mr. Leysour was the principal programmer and "trouble-shooter." Mr. Leysour helped design the database, as well as organize the sorting and printing of the bibliography. Finally, we gratefully acknowledge the help of Mrs. Helen Felrice of NIST in the preparation of the bibliography. This work was supported in part by the Office of Standard Reference Data at NIST and the CNRS in Paris.

C. REFERENCES

- [1] Fuhr, J. R., Miller, B. M., and Martin, G. A., Bibliography on Atomic Line Shapes and Shifts (June 1975 through June 1978), Natl. Bur. Stand. (U.S.), Spec. Publ. 366, Suppl. 3, 83 pages (Dec. 1978).
- [2] Fuhr, J. R., Wiese, W. L., and Roszman, L. J., Bibliography on Atomic Line Shapes and Shifts (1889 through March 1972), Natl. Bur. Stand. (U.S.), Spec. Publ. 366, 165 pages (Sept. 1972).

D. TABLE OF CODE LETTERS AND ABBREVIATIONS

A. Description	B. Language
1. T--theoretical method	1. Fr.--French
2. E--experimental method	2. Ger.--German
3. C--comment	3. Pol.--Polish
	4. Russ.--Russian
	5. Span.--Spanish

E. BIBLIOGRAPHICAL MATERIAL

1. LITERATURE REFERENCES OF GENERAL INTEREST

1.0. GENERAL ARTICLES ON LINE SHAPES AND SHIFTS

Theoretical: 3632

1.1. PRESSURE BROADENING

Comment: 4527

Combined comments-theoretical: 3217, 4936

Combined experimental-theoretical: 4004

Theoretical: 3139, 3227, 3228, 3270, 3342, 3410, 3514, 3554, 3572,
3611, 3747, 3784, 3795, 3882, 3886, 3891, 3903, 3908,
3911, 3928, 4009, 4010, 4072, 4090, 4091, 4198, 4218,
4228, 4229, 4246, 4283, 4285, 4296, 4335, 4368, 4390,
4397, 4444, 4483, 4659, 4753, 4815, 4986, 5012

1.1.1. Stark broadening and shifts

Comments: 3872, 4157

Combined comments-theoretical: 3726, 3745, 3833,
3934, 3997, 4375,
4396, 4804

Combined experimental-theoretical: 4563

Theoretical: 3091, 3133, 3274, 3280, 3299, 3334, 3488, 3505,
3587, 3593, 3594, 3665, 3692, 3741, 3747, 3750,
3752, 3776, 3799, 3834, 3841, 3887, 3897, 3911,
3957, 4020, 4027, 4029, 4049, 4121, 4137, 4155,
4185, 4187, 4204, 4214, 4220, 4237, 4289, 4290,
4372, 4397, 4435, 4436, 4437, 4454, 4464, 4482,

4491, 4546, 4566, 4568, 4586, 4593, 4628, 4704,
4712, 4717, 4759, 4791, 4793, 4802, 4803, 4832,
4841, 4856, 4858, 4872, 4873, 4884, 4894, 4974,
5014

1.1.1.1. Hydrogen and hydrogen-like (overlapping) lines

Comments: 3730, 4379

Combined comment-experimental-theoretical: 4562

Combined comments-theoretical: 3726, 3745,
3805, 4235

Experimental: 3322

Combined experimental-theoretical: 3549

Theoretical: 3125, 3206, 3226, 3298, 3332, 3342,
3458, 3576, 3602, 3662, 3718, 3719,
3723, 3733, 3744, 3747, 3764, 3779,
3888, 3965, 3985, 4013, 4142, 4143,
4238, 4253, 4300, 4303, 4349, 4387,
4447, 4448, 4456, 4491, 4517, 4537,
4598, 4672, 4717, 4719, 4762, 4790,
4836, 4865, 4929, 4935, 4987, 5017

1.1.1.2. Isolated lines of neutral spectra

Combined comments-theoretical: 3162, 3745

Experimental: 3123, 3687

Theoretical: 3160, 3171, 3196, 3747, 4041, 4533,
4710

1.1.1.3. Isolated lines of ionic spectra

Comment: 3084

Combined comments-theoretical: 3817, 4804

Combined experimental-theoretical: 3137

Theoretical: 3181, 3398, 3460, 3477, 3478, 3638,
3640, 3660, 3671, 3844, 4027, 4270,
4546, 4565, 4685, 4696, 4758, 4784,
4863, 4897, 4999, 5013

1.1.1.4. Topics of particular interest

A. Line wings

Experimental: 3152, 4269, 4661

Combined experimental-theoretical: 3222

Theoretical: 3095, 3227, 3317, 3597, 3889, 4179,
4217, 4518, 4533, 4676, 4861

B. Effects of collective electric fields

Comments: 3426, 4118

Combined comments-experimental: 3283, 3366,
3548, 3696,
3729

Combined comments-theoretical: 3306, 3431,
3484, 3485,
3740, 4462

Experimental: 3242, 3467, 3480, 3558,
4018, 4019, 4074, 4075, 4269

Combined experimental-comment: 3365

Combined experimental-theoretical: 4165, 4443

Theoretical: 3334, 3523, 3541, 3641, 3680, 3819,
3897, 3914, 4495, 4592, 4621, 4767,
4768, 4868, 4993

C. Asymmetries

Comment: 3730

Combined comments-theoretical: 3431, 3484

Experimental: 3152, 3248, 3534, 4136,
4189, 4242, 4429, 4596,
4613, 4843, 4910

Combined experimental-theoretical: 4468, 4479,
4699, 4902

Theoretical: 3095, 3317, 3841, 3889, 4092, 4348,
4598, 4714, 4903

D. Microfield distributions

Comment: 3520

Combined comments-theoretical: 3507, 3745,
3934

Combined experimental-theoretical: 3222, 3350

Theoretical: 3390, 3504, 3527, 3562, 3668, 3669,
3697, 3703, 3799, 3842, 3843, 3849,
3850, 3956, 3972, 4028, 4029, 4030,
4031, 4050, 4052, 4092, 4100, 4127,
4153, 4177, 4178, 4179, 4185, 4186,
4187, 4204, 4234, 4237, 4238, 4256,
4270, 4295, 4311, 4312, 4318, 4343,
4369, 4370, 4415, 4422, 4433, 4454,
4460, 4461, 4466, 4475, 4533, 4535,
4558, 4569, 4590, 4606, 4612, 4641,
4702, 4717, 4719, 4721, 4759, 4767,
4768, 4791, 4793, 4803, 4833, 4834,
4851, 4858, 4876, 4898, 4904, 4911,
4927, 4934, 4949, 5026

E. Magnetic fields

Combined comment-experimental: 3283

Experimental: 3205, 3284, 3433, 3645, 5002

Combined experimental-theoretical: 3290

Theoretical: 3252, 3441, 3527, 3541, 3719, 3724,
4065, 4207, 4208, 4243, 4356, 4357,
4924, 4985

F. Turbulent plasmas

Theoretical: 3523

G. Ion dynamic effects

Comments: 3520, 4265, 4379, 4385

Combined comments-experimental: 3316, 3666

Combined comments-theoretical: 3402, 3726,
3740, 4209,
4235, 4386

Experimental: 3169, 3288, 3292, 3468,
3469, 3687, 3950, 3989,
4078, 4079, 4374, 4626

Combined experimental-theoretical: 4115, 4634,
4707, 4810

Theoretical: 3298, 3333, 3336, 3345, 3394, 3587,
3744, 3764, 3766, 3835, 3904, 4100,
4208, 4236, 4237, 4238, 4496, 4510,
4511, 4516, 4517, 4552, 4580, 4641,
4675, 4732, 4733, 4775, 4796, 4859,
4894, 4913

H. Plasma polarization shifts

Comments: 3481, 3730, 4470

Combined comments-theoretical: 4375, 4564

Experimental: 3248, 3720, 3906, 4080,
4136, 4166, 4499, 4910

Combined experimental-theoretical: 3549, 3782,
4479

Theoretical: 3458, 3802, 3810, 3999, 4014, 4015,
4185, 4491, 4536, 4696, 4724, 4867,
4899

I. Stark effect on states above the ionization
threshold, autoionization effects

Experimental: 3558, 5040

J. Small field limit; fine structure

K. Relativistic effects

L. Dielectronic satellites

Experimental: 3618

Theoretical: 3256, 3257, 4581

M. Rydberg atoms

Experimental: 4395

Combined experimental-theoretical: 4409

Theoretical: 4194, 4445, 4456, 4610, 4667, 4859,
5018

1.1.2. van der Waals broadening

Comments: 3173, 3949

Combined comment-experimental: 3739

Combined comment-theoretical: 4055

Experimental: 3560, 5037

Combined experimental-theoretical: 3509, 3627, 3668,
4004, 4082, 4241,
4354, 4426

Theoretical: 3114, 3127, 3203, 3253, 3310, 3362, 3383, 3424,
3518, 3557, 3597, 3610, 3611, 3721, 3785, 3800,
3811, 3902, 3908, 3988, 3995, 4016, 4071, 4094,
4169, 4191, 4194, 4227, 4250, 4263, 4285, 4335,
4368, 4378, 4392, 4413, 4509, 4540, 4541, 4658,
4703, 4752, 4827, 4874, 4953, 4965

1.1.2.1. Satellite bands

Combined comment-experimental: 3465

Combined comment-theoretical: 4056

Experimental: 3199, 3473, 3529, 3584, 3655, 3682,
3717, 3925, 4109

Combined experimental-theoretical: 3168, 3207,
3233, 3266,
3321, 3440,
3583, 3688,
3796, 3862,
4407, 4635,
4842

Theoretical: 3364, 3427, 3453, 3506, 3523, 3572,
3622, 3751, 3785, 4111, 4263, 4430,
4541, 4660, 4852, 4853, 4854, 4862,
4947, 4950, 4951

1.1.2.2. Polarization effects

Combined comments-theoretical: 3162, 4056

Experimental: 3417, 3606, 3939, 4167

Combined experimental-theoretical: 3290, 3503,
4082, 4129,
4543

Theoretical: 3274, 3314, 3628, 3891, 4057, 4071,
4072, 4191, 4296

1.1.2.3. Fine structure; hyperfine structure

Combined comment-experimental-theoretical: 3921

Combined comment-theoretical: 3335

Experimental: 3311, 3413, 3417, 3486, 3710, 3769,
3771, 3773, 3984, 4003, 4008, 4321,
4553, 4646, 4840, 4969

Combined experimental-theoretical: 3355, 3416,
3437, 3772,
3963, 4211,
4502

Theoretical: 3104, 3105, 3106, 3127, 3134, 3135,
3215, 3252, 3382, 3383, 3412, 3434,
3435, 3483, 3516, 3552, 3610, 3677,
3793, 3896, 3899, 3946, 3947, 4088,
4388, 4537, 4647, 4731, 4940

1.1.3. Resonance broadening

Theoretical: 3127, 3611, 4155, 4176

1.2. BASIC ARTICLES ON DOPPLER AND NATURAL LINE SHAPES

1.2.1. Doppler broadening and Doppler-free spectroscopy

Comment: 3268

Combined comment-experimental: 4455

Combined comment-theoretical: 3485

Experimental: 3297, 3330, 3349, 3369, 3384, 3418, 3419,
3489, 3569, 3672, 3700, 3715, 3749, 3769,
3806, 3885, 3898, 3901, 4000, 4135, 4139,
4167, 4323, 4367, 4421, 4542, 4607, 4754

Combined experimental-theoretical: 3261, 3337, 3487,
4096, 4115, 4543,
4643, 4644, 4698,
4744, 4773, 5039

Theoretical: 3090, 3153, 3201, 3249, 3301, 3314, 3376, 3550,
3620, 3675, 3712, 3821, 3861, 4091, 4097, 4428,
4511, 4827, 4963

1.2.2. Natural line broadening

Theoretical: 3158, 3277, 3488, 3944, 4045, 4446, 4579, 4823,
5015

1.2.3. Radiation induced broadening

Combined comment-theoretical: 3109

Experimental: 3367, 3456, 3820, 3980, 4184, 4215

Combined experimental-theoretical: 3920, 3935

Theoretical: 3131, 3462, 3543, 3643, 3652, 3707, 3738, 3775,
3851, 3877, 3894, 3948, 3991, 3992, 4106, 4219,
4228, 4353, 4410, 4771, 4985, 4993

1.3. BASIC PAPERS ON INSTRUMENTAL BROADENING,
DECONVOLUTION, SUPERPOSITION OF TWO OR MORE
SIMULTANEOUSLY ACTING BROADENING MECHANISMS

1.3.1. Determination of instrumental line profiles; techniques for
determining line shapes

Combined comments-theoretical: 3110, 3485

Experimental: 3083, 3097, 3251, 3259, 3329, 3381, 3404,
3474, 3513, 3517, 3684, 3714, 3859, 4210,
4488, 4556, 4671, 4680

Combined experimental-theoretical: 3130, 3261, 3313,
3358, 3359, 3360,

3482, 3509, 3546,

4171, 4309, 4557, 4846

Theoretical: 3082, 3129, 3167, 3218, 3220, 3254, 3258, 3305,
3309, 3319, 3320, 3340, 3411, 3412, 3471, 3523,
3539, 3547, 3556, 3573, 3575, 3600, 3620, 3626,
3706, 3731, 3905, 3912, 3913, 3915, 3951, 3990,
4001, 4026, 4146, 4149, 4160, 4168, 4219, 4247,
4277, 4406, 4494, 4806, 4925

1.3.2. Deconvolution

Combined comment-theoretical: 3110

Experimental: 3087, 4297, 4726

Combined experimental-theoretical: 3244, 3308, 3358,
3500, 4138, 4821, 4846

Theoretical: 3138, 3167, 3220, 3320, 3340, 3344, 3361, 3411,
3470, 3620, 3648, 3756, 3812, 3883, 4034, 4081,
4108, 4147, 4200, 4201, 4314, 4515, 4605, 4608,
4615, 4774, 4808

1.3.3. Superposition of broadening mechanisms

Comments: 3428, 3566, 4931

Combined comments-theoretical: 3577, 3857

Experimental: 3083, 3097, 3243, 3259, 3327, 3341, 3714,
3859, 4297, 4959

Combined experimental-theoretical: 3244, 3429, 3482,
3570, 4175, 4309, 4750

Theoretical: 3082, 3086, 3128, 3129, 3184, 3185, 3201, 3218,
3272, 3285, 3304, 3319, 3340, 3375, 3377, 3407,
3462, 3483, 3497, 3515, 3516, 3533, 3537, 3542,
3547, 3552, 3601, 3605, 3607, 3650, 3675, 3691,

3708, 3711, 3712, 3732, 3774, 3780, 3787, 3837,
3845, 3847, 3848, 3856, 4026, 4043, 4104, 4125,
4150, 4159, 4168, 4212, 4264, 4277, 4293, 4299,
4359, 4408, 4560, 4568, 4599, 4638, 4653, 4677,
4678, 4683, 4727, 4761, 4765, 4806, 4807, 4820,
5004, 5029

1.3.4. Multiphoton spectroscopy and saturation methods

Comment: 3178

Experimental: 3115, 3146, 3187, 3199, 3230, 3349, 3389,
3405, 3417, 3418, 3422, 3489, 3561, 3569,
3579, 3614, 3659, 3749, 3827, 3885, 3898,
3959, 4453, 4575, 4754

Combined experimental-theoretical: 3261, 3337, 3338,
3408, 3487, 3509,
4174, 4643, 4896

Theoretical: 3101, 3127, 3166, 3202, 3238, 3258, 3301, 3314,
3412, 3531, 3881, 3911, 4097, 4188, 4792

1.4. IMPORTANT LINE BROADENING APPLICATIONS

1.4.1. Laser & maser applications

Comments: 3760, 4713

Combined comment-experimental: 4455

Combined comment-experimental-theoretical: 4562

Combined comment-theoretical: 4901

Experimental: 3148, 3149, 3200, 3230, 3232, 3243, 3251,
3269, 3312, 3343, 3367, 3389, 3393, 3405,
3413, 3417, 3436, 3456, 3480, 3489, 3545,
3561, 3579, 3582, 3624, 3690, 3743, 3769,
3820, 3846, 3853, 3980, 4042, 4132, 4323,

4336, 4345, 4346, 4403, 4463, 4572, 4582,
4728, 4843, 4941, 5037

Combined experimental-theoretical: 3165, 3222, 3261,
3313, 3318, 3355,
3360, 3423, 3487,
3503, 3509, 3567,
3592, 3619, 3651,
3664, 4066, 4133,
4484, 4498, 4559,
4563, 4906, 4943

Theoretical: 3090, 3166, 3189, 3307, 3363, 3528, 3543, 3565,
3719, 3775, 3787, 3799, 3800, 3819, 3877, 4020,
4106, 4143, 4188, 4195, 4216, 4227, 4267, 4353,
4476, 4491, 4585, 4600, 4609, 4647, 4658, 4759,
4798, 4827, 4988, 5012

1.4.2. Astrophysical applications

Comment: 4288

Combined comments-theoretical: 3136, 4254, 4383, 4921

Experimental: 4075, 4233, 4382, 4577, 4825

Combined experimental-theoretical: 3117, 3374, 3535,
3536, 4165, 4409, 4747

Theoretical: 3179, 3231, 3395, 3580, 3581, 3724, 3733, 3779,
3878, 3996, 4089, 4102, 4251, 4305, 4356, 4399,
4400, 4401, 4587, 4591, 4593, 4637, 4715, 4811,
4812, 4820, 4836, 4837, 4838, 4847, 4848, 4860,
4862, 4950, 4951

1.4.3. Plasma diagnostics

Comment: 3289

Combined comments-experimental: 3354, 3563, 4226

Combined comment-experimental-theoretical: 4562

Combined comments-theoretical: 3110, 3507

Experimental: 3087, 3122, 3126, 3174, 3176, 3192, 3209,
3236, 3243, 3245, 3248, 3264, 3265, 3267,
3273, 3296, 3322, 3331, 3343, 3387, 3396,
3397, 3400, 3404, 3415, 3430, 3457, 3463,
3466, 3472, 3502, 3519, 3564, 3612, 3667,
3672, 3676, 3687, 3690, 3701, 3743, 3803,
3806, 3853, 3865, 3880, 3952, 4000, 4076,
4078, 4117, 4119, 4132, 4135, 4203, 4252,
4257, 4266, 4281, 4284, 4294, 4344, 4345,
4346, 4393, 4412, 4414, 4421, 4463, 4481,
4530, 4572, 4649, 4695, 4743, 4764, 4776,
4824, 4826, 4829, 4866, 4955, 4957, 5002,
5006, 5019, 5025, 5036

Combined experimental-theoretical: 3100, 3198, 3222,
3235, 3276, 3315,
3318, 3355, 3359,
3501, 3538, 3586,
3592, 3651, 3653,
3664, 3742, 3868,
3923, 4037, 4066,
4138, 4148, 4165,
4172, 4306, 4319,
4330, 4391, 4431,
4559, 4563, 4633,

4773, 4831, 4922,

4943, 5043

Theoretical: 3086, 3125, 3191, 3219, 3225, 3325, 3420, 3462,
3527, 3544, 3565, 3573, 3620, 3680, 3725, 3873,
3931, 3987, 4050, 4060, 4121, 4123, 4153, 4193,
4216, 4461, 4467, 4491, 4576, 4612, 4719, 4790,
4859, 4865, 4875, 4912, 4914, 4954

1.4.4. Other applications

Experimental: 3351

Theoretical: 3091, 3116, 3161, 3274, 3324

1.4.5. Plasma chemistry

Experimental: 4279, 4347, 4425, 4555, 4693, 4716

Theoretical: 4879

1.5. OTHER TOPICS INVOLVING LINE SHAPES AND SHIFTS

1.5.1. The line shape in the presence of self-absorption; effects of radiative transfer

Combined comment-experimental-theoretical: 4562

Combined comment-theoretical: 3968

Experimental: 3200, 3405, 3494, 4038, 4313, 4322, 4420,
4735

Combined experimental-theoretical: 3495, 3619, 3852,
4037, 4138, 4330,
4391, 4431, 4750

Theoretical: 3226, 3231, 3399, 3406, 3675, 3733, 3931, 3981,
3995, 4022, 4023, 4035, 4089, 4248, 4526, 4576,
4639, 4640, 4674, 4798

1.5.2. Broadening of scattered radiation; redistribution of radiation

Combined comment-experimental-theoretical: 3574

Combined comments-theoretical: 3154, 4524

Experimental: 3381, 3606, 3824, 3863, 3939, 4523, 4624,
4663, 4839

Combined experimental-theoretical: 3503, 3629, 4061,
4066, 4129, 4262,
4355, 4502, 4548,
4611, 4750

Theoretical: 3089, 3092, 3103, 3158, 3274, 3357, 3444, 3445,
3446, 3451, 3452, 3530, 3532, 3628, 3704, 3713,
3722, 3784, 3800, 3804, 3808, 3854, 3911, 3927,
4020, 4044, 4057, 4071, 4072, 4089, 4227, 4248,
4258, 4259, 4260, 4267, 4334, 4404, 4419, 4465,
4469, 4519, 4525, 4528, 4529, 4544, 4545, 4549,
4594, 4639, 4640, 4673, 4674, 4749, 4753, 4777,
4778, 4834, 4968, 4995, 5009

1.5.3. Some important papers on molecular line broadening

Experimental: 3421, 3474, 4726

Combined experimental-theoretical: 3960, 4427, 4484

Theoretical: 3143, 3263, 3340, 3539, 3607, 3738, 3809, 3854,
3962, 4141, 4198, 4474, 4984

1.5.4. Miscellaneous topics

A. Broadening of x-ray lines

Experimental: 3265, 4284

Combined experimental-theoretical: 3318, 3423,
3482, 3501,
3619

Theoretical: 3544, 3565, 3718, 4204

B. Light shifts; relaxation

Experimental: 3187, 3262, 3293, 3367,
3384, 3413, 3454, 3545,
3614, 3820, 3892, 3898,
3922, 4058

Combined experimental-theoretical: 3118, 3142,
3165, 3193,
3963, 4164

Theoretical: 3153, 3301, 3302, 3307, 3362, 3383,
3531, 3910, 3942, 4296

C. Zeeman broadening

Combined experimental-theoretical: 4664

D. New anomalous redshifts

Combined comment-theoretical: 3392

E. Laser field-induced broadening

Experimental: 3455

F. Charge-exchange effects

Combined experimental-theoretical: 4067

G. Line-narrowing mechanisms

Theoretical: 4763

1.6. REVIEW ARTICLES

1.6.1. General line broadening reviews

3108, 3255, 3623

Theoretical: 3410, 4674

1.6.2. Reviews on pressure broadening

3508, 4107, 4550, 4742, 4818, 4880, 4888, 4972

Comment: 3760

Theoretical: 3725, 3881

1.6.2.1. Reviews on Stark broadening

3147, 4196, 4197, 4310, 4603, 4782, 4880, 4917

Comment: 3520

Experimental: 4916

Combined experimental-theoretical: 3124, 3234

Theoretical: 3641, 3725, 3744, 4715, 4913, 4974

1.6.2.2. Reviews on foreign gas broadening

3786, 3967, 4880

Experimental: 3582, 4373

Theoretical: 3902, 3908

1.6.2.3. Reviews on resonance broadening

3728, 3967

1.6.3. Reviews on Doppler broadening and Doppler-free spectroscopy

4818

Combined experimental-theoretical: 3112

1.6.4. Studies of regularities

3096, 3099, 3213, 3237, 3379, 3380, 3694, 3698, 3734, 3735,
3737, 3932, 4046, 4785, 4933, 4982, 5010, 5045

Comment: 3893

Combined comment-theoretical: 5011

Experimental: 3098, 3522, 3879, 4033, 4047, 4084, 4086,
4358, 4366, 4500, 4631, 4737, 4738, 4740,
4788, 4816, 4878, 4960, 4979, 4996, 5034

Combined experimental-theoretical: 3326, 3736, 4604,
4736, 4739, 4756

Theoretical: 3196, 3212, 3553, 3818, 3976, 3977, 3978, 4156,
4158, 4289, 4291, 4292, 4372, 4566, 4886, 4887,
4889, 4973, 4975, 4976

1.7. REFERENCES ON LINE BROADENING TABLES AND
BIBLIOGRAPHIES

1.7.1. General line broadening tables

1.7.2. Pressure broadening tables

1.7.2.1. Special Stark broadening tables

4046, 4196, 4197, 4917, 5045

Theoretical: 4041, 4342, 4357, 4533, 4684, 4786,
4837, 4855, 4882, 4883, 5031, 5032

1.7.2.2. Special foreign gas broadening tables

3786

1.7.3. Doppler and natural line broadening tables

1.7.4. Tables of Voigt functions

Theoretical: 4150

1.7.5. Line broadening bibliographies

3172, 4888, 4972, 5028

2. A. LITERATURE REFERENCES CONTAINING NUMERICAL DATA.

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

Al I	Al XI	T	4366, 4394, 4500, 4649, 4657, 4755, 4787, 4813
Stark E 3291, 3386, 3646	Stark E 4824	3188, 3300, 3544, 4187, 4256, 4552	E,T. 3137, 4492, 4814
E,T 3792, 4093	T 3544, 3884, 4873	Ar I Resonance E 3192, 3909, 4616; 4870	T 3750, 4437, 4439, 4440
T 3406	Al XII	E,T 4098	Ar III Stark E 3248, 4738
Al II	Stark C 4670	T 4230	E,T 4604, 4915
Stark E 3699, 4602	E 4257	Stark E 3387, 3388, 3969, 4032, 4033, 4120, 4192, 4316, 4501, 4596, 4649, 4655, 4656, 4657, 4766, 4770, 4805, 4864, 4923, 4956, 5000	T 3279, 3281, 3460, 3640, 3670, 4565, 4685
E,T 3736, 4371	E,T 3276	Ar IV Stark E 4738	E,T 4905, 4915
T 4437	T 3544, 3799, 4767, 4768, 4863	T 4230, 4280, 4464, 4832	T 3279, 3281, 3460, 3640, 3670, 4565, 4685
Al III	Stark-Doppler T 4767	Ar II	Ar XII
Stark T 3212, 3460, 3640, 3750, 4685	Al XIII	Stark E 3152, 3180, 3248, 3461, 3906, 4202,	Stark E,T 4134
Al IV	Stark C 4670		
Stark T 3752	C,T 4235		
Al IX	E 4053, 4203, 4257		
Stark T 3544	E,T 3501		
Al X			
Stark T 3544			

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

		4256, 4300,		
	Ar XIV	4343, 4387,	T	T
Stark		4516, 4517,	4007	4007
E,T		4519, 4536,		
4922		4552, 4558,	Ba I	Be seq.
		4598, 4612,	Resonance	Stark
	Ar XV	4641, 4894,	E	T
Stark		4912, 4934,	3936	4154
E,T		4935		
4922			Stark	Bi II
		Stark-Doppler	E	Stark
	Ar XVI	T	4192	E
Stark		4179		4047, 4084
E,T			Ba II	
4922		B I	Stark	E,T
		Stark	E	3521, 4371
T		E	4192, 4923	
5026		5033		Br I
			T	Stark
	Ar XVII	B II	3175, 3212,	E
Stark		Stark	3638	4340
E,T		E		
3476, 3501,		5033	Zeeman	E,T
3592			E	4689, 4893
		B III	3273	
T		Stark		T
3336, 3660,		E	Be II	3974
3683, 3931,		5033	Stark	
4793, 4900,			E,T	Br II
4912, 4999,		T	3326	Stark
5026		3212, 3640,		E
		4685, 4745	T	4996
	Ar XVIII		3640, 4290,	
Stark		B IV	4437, 4565,	Br III
C,T		Stark	4745, 5031	Stark
3335, 3507,		T		E
4235, 4386		3640, 4270,	Be III	4996
		4685	Stark	
E,T			T	Br IV
3592, 4906		B V	3640, 4685	Stark
		Stark		E
T		E	Be IV	4996
3528, 3718,		3200, 5044	Stark	
3776, 3802,			E	Br XXXIII
3931, 3965,		E,T	3200	Stark
3966, 3985,		3355, 4907		T
4013, 4121,				3703
4153, 4179,				
4238, 4253,				

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

Br XXXV	E,T	Stark-Doppler	Stark
Stark	4908	E	E
T		3343, 3720	4192
3985, 4300	T		
C I	3279, 3385,	Stark-Zeeman	T
Stark	3460, 3640,	T	3974
E	4565, 4685,	3719, 3719	
3409, 3994,	4686, 4745,		Zeeman
4189, 4452,	4793, 4811,	Ca I	E
4583, 5008	4885, 4975,	Resonance	3647
	4977	E	
		4411	Cd II
E,T	C V		Stark
4902	Stark	Stark	E
	E	E	4980
T	4850	3433, 4190	
3385, 4838	E,T	T	Cl I
C II	4707	4482	Stark
Stark			E
E	T	Ca II	3085, 4358,
3210, 3829,	3385, 3662	Stark	4688
3830, 4687,		E	E,T
5008	C VI	3329, 3945,	4893
	Stark	3993, 4923	
T	C,E		Cl II
3385, 4811	4170	E,T	Stark
C III	E	3326	E
Stark	3200, 3343	T	4740
E		3638, 3750,	E,T
3982, 4687,	E,T	4290, 4437,	3736, 4915
4709	3222, 3355,	4565, 5032	
	3782, 3938,		Cl III
T	4707, 4708	Ca XVIII	Stark
3279, 3385,		Stark	E
3460, 3640,	T	T	4740
3670, 4636,	3188, 3300,	4872	
4685, 4745,	3528, 3662,		E,T
4811	3718, 3719,	Cd I	4915
	3860, 3912,	Resonance	
C IV	3965, 4007,	E	T
Stark	4348, 4496,	3120, 3241	3279, 3460,
E	4719, 4899,		3640, 3670,
3937, 3982,	4914		3813, 4565,
4255, 4554,			4685
4669, 4687			

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

Cl IV	Stark	Cu IV	F III
Stark	E	Stark	Stark
E	3699, 3871,	T	E
4740	4252, 4344,	4783	4740, 4979
	4381, 4666,		
T	4706, 4751,	D I	T
3640, 4685	4772	Stark	4685
		C,E	
Cl XVII	E,T	3316	F IX
Stark	4371		Stark
T		E	C,E,T
4954	T	3126, 3287,	4562
	3196	3463, 3642,	
Co I		3952, 3989,	E,T
Stark	Stark-Resonance	4626, 4830	3355
E	T		
4083, 4223	4252	E,T	F VII
		3100, 4895	Stark
Cr I	Cu I		E
Stark	Line broadening	Eu I	4095
E	E	Resonance	
3466	5040	E	T
		4512	4619, 4714,
Cr II	Stark		4758
Stark	E	F I	
E	4192, 4298,	Stark	F VIII
4048, 4224	4365, 4622	E	Stark-Doppler
		4481, 4688	E,T
Cs I	E,T		3482
Resonance	4831	E,T	
E		4113, 4893	Fe I
3190, 3356,	T		Stark
3418, 3783,	4472, 4793	T	E
4666, 4772		4434	3294, 4920,
	Stark-Zeeman		4923
E,T	E	F II	
3233, 3583	5025	Stark	Fe II
		E	Stark
T	Cu II	4979	E
3498, 3526	Stark		4923
	E	E,T	
Resonance-Doppler	4298, 4622,	3736	Fe XV
E	4835	T	Stark
3783		3640, 3670	T
			3496

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

				4903, 4929, 4935, 4967, 4985, 4989, 4993, 5017, 5023
Fe XXV	Stark	E, T		
Stark	3394	3770, 4126,		
T		4172, 4543,		
4694, 4897	C	4634, 4698,		
	3289, 4307,	4699, 4705,		
Ga I	4459	4801, 4831,	Stark-Doppler	
Stark		4831, 4895,	T	
E	C, E	5005	3299, 3394,	
3759	3283, 3316,		3904	
	3354, 3366	T		
E, T		3179, 3227,	Stark-Zeeman	
4618	C, T	3229, 3298,	C, E	
	3303, 3402,	3299, 3317,	3283	
Ga II	3726, 3740,	3333, 3334,		
Stark	3934, 4317,	3394, 3555,	T	
E, T	4734	3562, 3576,	3441	
4618		3649, 3680,		
	E	3764, 3766,	He I	
Ga III	3113, 3132,	3779, 3834,	Resonance	
Stark	3177, 3248,	3836, 3841,	E	
T	3287, 3396,	3889, 3904,	3156, 3517,	
3212	3430, 3457,	3965, 3966,	3630, 3631,	
	3463, 3467,	3998, 4060,	4817	
	3468, 3624,	4065, 4097,		
Ge I	3625, 3642,	4100, 4102,	Stark	
Stark	3654, 3667,	4206, 4207,	C	
E	3771, 3900,	4208, 4217,	3426	
4362, 4489,	3964, 3989,	4236, 4238,		
4730	4012, 4132,	4239, 4240,	C, E	
	4136, 4242,	4268, 4304,	3443, 3548,	
T	4266, 4269,	4305, 4350,	3666	
3974	4278, 4301,	4388, 4389,		
	4302, 4308,	4448, 4449,	C, T	
H I	4313, 4337,	4450, 4456,	4209	
Doppler	4429, 4432,	4505, 4510,		
E	4457, 4504,	4511, 4518,	E	
4547, 4966	4508, 4542,	4569, 4580,	3111, 3123,	
	4572, 4613,	4627, 4665,	3148, 3159,	
Resonance	4648, 4661,	4676, 4679,	3163, 3164,	
E	4680, 4690,	4697, 4701,	3169, 3205,	
3710	4797, 4843,	4719, 4724,	3242, 3288,	
	4928, 4941,	4732, 4733,	3292, 3296,	
T	4991, 5001,	4748, 4762,	3370, 3400,	
4862, 4950,	5019	4775, 4791,	3421, 3466,	
4951		4796, 4800,	3469, 3519,	
		4819, 4841,	3687, 3701,	
		4851, 4855,	3950, 3980,	
		4861, 4876,	4074, 4077,	

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

4078, 4079,			
4112, 4117,	C,E	T	I LIII
4249, 4374,	3563, 4068	3622, 4103	Stark
4405, 4522,			T
4799, 4849,	E	Stark	3985, 4300
4938, 5007,	3094, 3197,	E	
5024	3221, 3400,	4038	In I
	3612, 3803,		Stark
E,T	3840, 4080,	E,T	E,T
3350, 3359,	4131, 4166,	3970, 4891	4618
3360, 3368,	4221, 4255,		
3538, 3653,	4414, 4418,	T	In II
4498, 4810,	4499, 4617,	3974, 4103	Stark
4948	4695, 4711,		E,T
	4723, 4822	Zeeman	4618
T		E	
3133, 3278,	E,T	3647	In III
3282, 3334,	3315, 3538,		Stark
3345, 3432,	3549, 4794	Hg II	T
3598, 3603,		Stark	3212
3765, 3791,	T	E,T	
3801, 3816,	3332, 3593,	4891	K I
3878, 3976,	3594, 3778,		Resonance
3977, 3978,	3802, 3835,	I I	E
4156, 4158,	3965, 3999,	Resonance	3749
4287, 4435,	4092, 4451,	E	
4436, 4621,	4521, 4665,	3389	E,T
4675, 4786,	4697, 4724,		4326
4793, 4838,	4732, 4762,	Stark	
4876, 4881	4836, 4837,	E	T
	4867, 4871,	4788	3498, 3526,
Stark-Zeeman	4929, 4942,		3858, 4610
E	5017	E,T	
3284		4893	Stark
	Hg I		C
Zeeman	Resonance	I II	4315
E	C	Stark	
5002	3447	E	C,T
		4919	4338
He II	E		
Doppler	3328, 3571,	I III	E
C,E	4503	Stark	3098, 3433,
3563, 3573		E	4182, 4183
	E,T	4919	
Stark	3440, 4502		T
C			3196, 4438,
3493			4567, 4883

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

		4971, 4973	
K II	T		Mg XII
Stark	4565	Li III	Stark
E,T		Stark	T
3736	Kr IV	E	3188, 3300,
	Stark	4910	4349
K XVIII	C,T	E,T	
Stark	5011	4479	Mn I
T			Stark
4954	Kr XXXIII		T
	Stark	Mg I	4482
Kr I	T	Resonance	
Resonance	4758, 4759,	E	Mn II
E	4873	3936, 4760	Stark
3327, 3679,			T
4575	Kr XXXIV	Stark	3814
	Stark	E	
T	T	3329, 3433,	N I
4792	4758, 4759,	3828, 4192	Stark
	4873, 5014		E
Stark		T	3155, 3250,
E	Kr XXXVI	4436, 4482	3534, 4452,
3245, 3621,	Stark		4596
4578, 4650,	T	Mg II	
4816, 4845	3985, 4300	Stark	T
		E	4838
E,T	Li I	3329, 3828,	
4756	Resonance	3945	N II
	E		Stark
Kr II	3761, 3925,	E,T	C
Stark	4110	3326	3686
E			
3621, 4086,	T	T	C,T
4366, 4500,	3526	3638, 3750,	3636
4650, 4682,		4290, 4437,	
4781, 4816,	Stark	4565	E
4845, 4960	E		3248, 4222,
	3098, 3433,	Mg IV	4339, 4631,
Kr III	4110, 4192,	Stark	4709, 5035
Stark	4572, 4992	T	
E		3640, 4685	E,T
4682, 4781	E,T		3315
	3792	Mg XI	
E,T	T	Line broadening	T
4604	3196, 3637,	E,T	3182, 3315,
	3703, 3758,	3619	3640
	3815, 3943,		
	3973, 4417,		

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

N III	E,T	E,T	E,T
	4907	4211, 4443,	4604
	T	4559, 4943	T
	4811, 4885,	T	3640, 4565,
C,T	4889	3196, 3750,	4685
3636		4291, 4292,	
	N VII	4399, 4400,	Ne IV
E	Stark	4401, 4882,	Stark
4222, 4631	C,E	4887	E
	4170		4738
E,T		Na III	
3315	E	Stark	T
	3200	T	3640, 4685
T		3640, 4685	
3279, 3281,	E,T		Ne VI
3315, 3460,	3355	Ne I	Stark
3640, 3670,		Resonance	T
4565, 4685	T	E	4889
	4007, 4899	3224, 3247,	
N IV		4099, 4998	Ne VII
Stark	Stark-Doppler		Stark
C	E	Stark	T
3686	3720	E	4745
		4377, 4629,	
C,T	Na I	4680, 4741,	Ne VIII
3636	Resonance	4757	Stark
	E		T
E	3373, 3422,	T	4745
3248, 4631,	3551, 3761,	3750	
4857	4024, 4025,		Ne VIIII
	4110	Ne II	Stark
E,T		Stark	E
3315	T	E	4416
	3450, 3526,	3209, 4471,	
T	4610	4500, 4630	T
3315, 3640,			4712, 4793
4685, 4889	Stark	E,T	
	E	3736	Ne X
N V	3098, 3433,		Stark
Stark	3806, 3865,	Ne III	C,T
E	4110, 4192,	Stark	3335
4095, 4554,	4345, 4346,	E	
4631, 4669	4395, 4572,	4738	E
	4866, 5033		3243, 4416

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

E,T 3423, 3501, 4906	T 3279, 3281, 3460, 3479, 3635, 3640, 3670, 4565, 4685	T 3188, 3300, 4899	Pb II Stark E 4047, 4084, 4376
T 3188, 3300, 3332, 3527, 3528, 3565, 3718, 3802, 3810, 4013, 4123, 4153, 4179, 4214, 4256, 4348, 4491, 4516, 4536	O IV Stark E 4737	P I Stark E 4358	E,T 3347, 4371
Stark-Doppler E 3243	O V Stark E 4737	P II Stark E 4047, 4084, 4358	Rb I Line broadening E,T 3495
T 4179	T 3640, 4685, 4889	E,T 3736, 4371	Resonance 3569
O I Stark E 3994, 4583	O VI Stark E 4095, 4669	P III Stark T 3640, 4685	C,T 4055
T 4662, 4838, 4859	T 4745, 4889, 5013	P IV Stark T 3640, 4685	E 3190, 3356, 3403, 3419, 3569, 3749, 3933, 4064, 4324
O II Stark E 4737, 4981	O VIII Stark C,E 4170	Pb I Resonance E 4983	E,T 3583
T 3479, 3639, 3670, 3818	E 3200	Stark E 4376, 4835	T 3526, 3895, 4610
O III Stark E 4737	E,T 3355	E,T 3347	Stark E,T 3326
		T 3974	T 3212, 3974
			S I Stark E 3994, 4358, 4393, 4481

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

S II	Si I	Si XIII	Sr II
Stark E 4282, 4358, 4481, 4890	Stark E,T 3374, 3792	Stark E,T 3318, 3501	Stark E 3329, 4192, 4923
E,T 3736, 4915	Si II Stark E 3151, 3214, 3869, 4054, 4926	T 3334, 3336, 4092	T 3212, 3638, 3640
S III	Si III	Si XIV	Stark-Doppler
Stark E 3211, 4890	T 3975, 4715, 4811	Stark E,T 3501	E 3494
E,T 3371	Si III Stark E 3869, 5034	T 3188, 3300, 3332, 4092	Ti II Stark T 3814
T 3460, 3478, 3640, 3670, 3813, 4565, 4685	Si III Stark E 3869, 5034	Sn I Stark E 3348	Ti IV Stark E,T 4507
S IV	T 3279, 3460, 3640, 3975, 4565, 4685, 4811, 4889	T 3974	Ti XX Stark T 3703
Stark E 3211	Si IV Stark E 5034	Sn II Stark E 3348, 4047, 4084, 4892	Tl I Doppler E 3341
E,T 3371	T 3279, 3460, 3640, 3750, 4565, 4685, 4811, 4976, 4978, 5013	E,T 4371	Resonance E 3121, 3208, 3571
T 3460, 3478, 3640, 3670, 3813, 4565, 4685	Sb II Stark E 4047, 4084	T 3477, 3670	
Sb II	Zeeman E,T 4664	Sr I Stark E 4192	Tl III Stark T 3212
Stark E 4047, 4084		Stark-Doppler E 3494	
E,T 4371			

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

V V	T	Zeeman
Stark	4877	E
E, T		3647
4507		
	Xe III	
	Stark	Zn II
Xe I	E	Stark
Resonance	4682, 4781	E
E		4980
3327, 3959,	E, T	
4051, 4575	4604	
E, T	T	
4896	4565	
T	Xe LIV	
4792	Stark	
	T	
Stark	3985, 4300	
C, T		
5011	Xe XLV	
	Stark	
E	T	
3331, 3753,	4912, 4999	
4017, 4181,		
4332, 4333,		
4650, 4916		
	Yb I	
	Resonance	
	E	
E, T	4930	
4756		
	E, T	
T	5020	
3752		
	Zn I	
	Resonance	
Xe II	E	
Stark	3241	
E		
3879, 4086,	Stark	
4225, 4366,	E	
4500, 4650,	3291	
4722, 4780,		
4816, 4916,	E, T	
4958, 4959	4831	
E, T	T	
4492	3974	

2.B. LITERATURE REFERENCES CONTAINING NUMERICAL DATA.

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

		4098 by Ar
Ag I		4945 by Ar, He
E		
3596 by Ar, Kr, Xe		T
		4946 by He
Al I		4853 by He, Ne
		4122 by He, Ne, Ar
E		4947 by Ne
3216 by He, Ar		
	B I	
Ar I		
		T
C,T		4520 by Ne, Ar, Kr
4779 by He, Ne		
	Ba I	
E		
4486 by Ar	E	3693 by Ar
4725 by Ar		4004 by Ar
3192 by Ar		4271 by Ar, Kr, Xe
3909 by Ar		4918 by He, Ar
4316 by Ar		4244 by He, Ar, Kr
4501 by Ar		3838 by He, Ne, Ar, Kr, Xe
4616 by Ar		3295 by Kr
4962 by Ar, He, Ne		3578 by Kr
4531 by Ar, Ne, He		
4273 by He, Ne, Ar		
4532 by He, Ne, Ar	E,T	
4870 by He, Ne, Ar		4262 by Ar
4652 by He, Ne, Ar		3425 by Ar, Kr, Xe
		4129 by Ar, Xe
		5022 by Ba
E,T		5021 by He, Ne, Ar, Kr, Xe
4124 by Ar		

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

		3656 by He, Ar
		3826 by He, Ar
T		4589 by He, Ar, Xe
4392 by He, Ar, Kr		5041 by He, Ne, Ar
4286 by He, Ne		3916 by He, Ne, Ar, Kr, Xe
		4006 by He, Ne, Ar, Kr, Xe
Ba II		4601 by He, Ne, Ar, Kr, Xe
		4458 by He, Ne, Ar, Kr, Xe
E		4754 by Ne
4373 by Ar, Ne		
4654 by He, Ar		
		E,T
		3604 by air-C ₂ H ₂
		3627 by Ar
		3540 by Ar-O ₂ - H ₂
		3919 by Ar, Kr
E		4514 by Ar, Kr, Xe
4424 by He, Ar, Xe		3535 by Ar, Ne, He, H
4553 by He, N ₂ , Ar, Xe		4747 by H
		4869 by He, Ar, Xe
Br I		3825 by He, Ne, Ar, Kr, Xe
		3917 by Kr
E		4175 by Kr
3958 by Br ₂ , O ₂ , WF ₆ , UF ₆ , C ₃ F ₇ I ,		3540 by N ₂ -O ₂ -H ₂
CO ₂		
Ca I		
E		T
3352 by Ar		3203 by Ar
3807 by Ar		3605 by Ar, He
4004 by Ar		4932 by H
4561 by Ar, Kr		3536 by H
4411 by Ar, Kr, Xe		5016 by H
4272 by Ar, Ne		4392 by He, Ar, Kr
3746 by He		4286 by He, Ne
3918 by He		
4453 by He		
3144 by He, Ar		

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

Ca II

E
3754 by Ar
3144 by He, Ar
3656 by He, Ar
3826 by He, Ar

E,T
4004 by Ar

T
3605 by Ar, He
4729 by H
4485 by He
4614 by He

Cd I

E
3120 by Cd
3102 by Cd, Ne
3459 by He, Ar
3119 by Xe
3475 by Xe, Kr, Ar, He, Ne

E,T
4426 by Cd, Kr

T
4380 by Ar
4152 by Ar, Kr, Xe

Cd II

E
3789 by Cd

Cl I

E
4840 by He, Ar, Kr, Xe, O₂, CO, CO₂,
H₂, N₂, D₂, Cl₂, I, Cl

Cr I

E
4021 by C₂H₂-air
3378 by He, Ar, N₂, H₂

Cs I

C,E
3739 by Cs
3465 by He

C,T
3107 by He, Ne, Ar

E
3199 by Ar
3717 by Ar
3827 by Ar
3655 by Ar, He, Xe
4373 by Ar, Ne
4011 by Cs
3644 by H₂

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

4320 by He	3751 by Ar, Kr, Xe
4232 by He, Ne, Ar, Kr	5042 by Cs
4162 by He, Ne, Ar, Kr	4964 by Cs
4062 by He, Ne, Ar, Kr, Xe	3134 by He
4161 by He, Ne, Ar, Kr, Xe	4402 by He
4085 by He, Ne, Ar, Kr, Xe	3106 by He, Ar, Kr, Xe
4480 by He, Ne, Ar, Kr, Xe	3135 by He, Ne, Ar, Kr, Xe
4909 by He, Ne, Ar, Kr, Xe	3435 by He, Ne, Ar, Kr, Xe
3613 by He, Ne, N ₂ , CH ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₄ H ₁₀	4194 by He, Ne, Ar, Kr, Xe
4321 by Ne, Ar	3238 by H, He, Ne, Ar, Kr, Xe
3391 by Ne, Ar, Kr, Xe	3453 by Kr
3560 by Ne, Ar, Xe, Kr	3557 by Ne, Ar, Kr, Xe
4574 by Xe	3227 by Xe
3473 by Xe, Ar, He	3427 by Xe
3529 by Xe, Kr	3785 by Xe
3559 by Xe, Kr, Ar, Ne	4130 by Xe
	4263 by Xe
	3940 by Xe
	3093 by Xe, Ar
	3473 by Xe, Kr, Ar, He

E, T

4231 by Ar, Kr
3762 by Ar, Kr, Xe
3583 by Cs
3437 by He, Ne, Ar, Kr, Xe, H ₂ , N ₂
3321 by Xe
3500 by Xe
3688 by Xe
3168 by Xe, C ₅ H ₁₂

T

3203 by Ar
3763 by Ar
4252 by Ar, Cs
3688 by Ar, Kr
3215 by Ar, Kr, Xe
3240 by Ar, Kr, Xe

Cu I

E

3149 by He, Ne
3145 by N ₂ , air

E, T

3604 by air-C ₂ H ₂

Cu II

E

3346 by He

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

Eu I		Ga I	
E		T	
4513 by Ne		3382 by Ar, Kr, Xe	
		H I	
T		E	
4681 by He, Ne, Xe		3417 by He	
4965 by Sr		3769 by He	
F I			
E		E,T	
4101 by He, Ar, N ₂		3286 by H	
		3416 by He	
		4115 by He	
T			
4101 by Ar		T	
Fe I		4430 by Ar	
C,T		3271 by Ar II	
3136 by H		3104 by He	
		3946 by He	
		4940 by He	
		3106 by He, Ar, Kr, Xe	
E		3135 by He, Ne, Ar, Kr, Xe	
3568 by Ar		3435 by He, Ne, Ar, Kr, Xe	
		3238 by H, He, Ne, Ar, Kr, Xe	
E,T		He I	
3536 by H , He		E	
		3448 by He	
T		4087 by He	
4584 by H		4632 by He	
3580 by H, H-He		4937 by He	

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

T

4122 by He

5003 by He

Hg I

C

3447 by Ar, Kr, Xe

E

3727 by Ar

4503 by Ar

4144 by Ar, Kr

3269 by Ar, N₂

3492 by He

3890 by He, Ne

3788 by He, Ne, Ar, Kr, Xe

3589 by Hg

3328 by Hg

3661 by Kr

3571 by Ne, Kr, Xe

4002 by Xe

E,T

3207 by Ar

3266 by He, Ne, Ar, Kr, Xe

3695 by He, Ne, Ar, Kr, Xe

3157 by Hg

3440 by Hg

4330 by Hg

3970 by Hg

T

3702 by Ar, Kr, Xe

4286 by He, Ne

4852 by He, Ne

3926 by He, Ne, Ar, Kr, Xe

3585 by He, Ne, Ar, Kr, Xe

3506 by Hg

4103 by Hg

I I

E

3983 by Ar, O₂, I₂, I

4969 by Ar, O₂, I₂

3339 by He, O₂, H₂

4728 by I

4069 by O₂

T

3339 by He

4969 by Ne, Ar, Kr, Xe, O₂

In I

3223 by Hg

E

3223 by Hg

E,T

3540 by Ar-O₂-H₂

4163 by He, Ne, Ar, Kr, Xe, H₂, N₂

3540 by N₂-O₂-H₂

Perturbed element; perturbing element; reference number as in part 3.

T

3382 by Ar, Kr, Xe

K I

E

3673 by Ar

3846 by Ar

3822 by Ar

4970 by Ar

3755 by Cs

3195 by He, Ne, Ar, Kr, Xe, N₂

4327 by He, Ne, Ar, Kr, Xe

4328 by He, Ne, Ar, Kr, Xe

4360 by N₂, CO₂

3971 by Ne

4011 by Rb

E, T

3604 by air-C₂ H₂

3867 by Ar

3797 by Cs

3689 by He, Ar

3862 by He, Ne, Ar, Kr, Xe

3117 by He, Ne, Ar, Kr, Xe

3401 by He, Ne, Ar, Xe

3796 by K

4643 by K, Rb

3633 by Ne

3634 by Ne

4842 by Ne

4140 by Rb

T

4994 by Ar

3093 by Ar

4952 by H

4540 by He, Ne, Ar, Kr, Xe

3195 by He, Ne, Ar, Kr, Xe

4746 by He, Ne, Ar, Kr, Xe, N₂, K

3238 by H, He, Ne, Ar, Kr, Xe

4213 by K

5030 by K, Rb

4274 by Na

4964 by Rb, K

Kr I

E

3679 by He, Kr

4122 by He, Ne, Kr

T

4946 by He

4853 by He, Ne

4122 by He, Ne, Ar, Kr

3327 by Kr

4947 by Ne

Li I

E

3353 by Ar

4114 by Ar, Kr, Xe

3790 by He, Ne

3855 by He, Ne, Ar, Kr, Xe

3685 by He, Ne, Ar, Kr, Xe

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3839 by He, Ne, Ar, Kr, Xe

4534 by He, Ne, Ar, Kr, Xe

4109 by Li

3925 by Li

T

3605 by Ar, He

4286 by He, Ne

E,T

4105 by Cs

3117 by He, Ne, Ar, Kr, Xe

Mg II

E

3656 by He, Ar

3826 by He, Ar

T

4952 by H

3093 by He

4094 by He, Ne

4540 by He, Ne, Ar, Kr, Xe

3238 by H, He, Ne, Ar, Kr, Xe

3896 by Li, He, Ne

4213 by Li, Na, K

T

3605 by Ar, He

4729 by H

4485 by He

Mn I

Mg I

E,T

3604 by air-C₂H₂

E

4760 by Ar

4336 by H₂

3656 by He, Ar

3826 by He, Ar

4795 by He, Ne, Ar, Kr, Xe

Na I

C

3178 by Ar

4493 by H

E,T

4750 by Ar

3425 by Ar, Kr, Xe

4611 by H₂, He

C,T

4383 by H

3709 by He, Ne

E

3115 by Ar

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3170 by Ar	3824 by N_2 , Na_2
3606 by Ar	3907 by Ne
3353 by Ar	3590 by Ne, Ar, Xe
4008 by Ar	4595 by Ne, Ar, Xe
4351 by Ar, H, H_2	3658 by Ne, Kr, Xe
3681 by Ar, N_2 , H_2 , H_2O , H_2-O_2	4624 by Ne, Xe
-Ar, $H_2-O_2-N_2$, $C_2H_2-O_2-N_2$, CO-CO ₂	3659 by Ne, Xe, Kr
3682 by Ar, N_2 , H_2O , $H_2-O_2-N_2$,	3372 by NO, CO, N_2O
H ₂ -O ₂ -Ar	4036 by Rb, Cs
3579 by H_2-O_2 -Ar	3767 by Xe
3183 by $H_2-O_2-N_2$, H_2-O_2 -Ar, C_2H_2	
-O ₂ -N ₂	
3524 by He	E,T
3781 by He	3604 by air-C ₂ H ₂
3773 by He	3503 by Ar
4477 by He	3540 by Ar-O ₂ -H ₂
4478 by He	3772 by He
3373 by He, Ar, H_2 , N_2	4573 by He, Ar
3551 by He, Ar, H_2 , N_2 , N_2O , CO, NO	3823 by He, Ne, Ar
3866 by He, Ar, Kr	3588 by He, Ne, Ar, Kr, Xe
4003 by He, Ar, Kr	3142 by He, Ne, Ar, Kr, Xe
3146 by He, Ar, N_2	4082 by He, Ne, Ar, Kr, Xe
4828 by He, Ar, Xe, N_2	3509 by He, Ne, Kr
3984 by He, N_2 , Ar, Kr	3570 by Hg
3349 by He, Ne	4407 by Hg
3293 by He, Ne, Ar	4245 by K, Rb, Cs
3490 by He, Ne, Ar, Kr, Xe	3338 by Kr
3449 by He, Ne, Ar, Kr, Xe	3540 by $N_2-O_2-H_2$
3491 by He, Ne, Ar, Kr, Xe	3941 by Ne
3525 by He, Ne, Ar, Kr, Xe	4174 by Ne, Kr, Xe
3499 by He, Ne, Ar, Kr, Xe	4623 by Ne, Xe
3262 by He, Ne, Ar, Kr, Xe	4625 by Ne, Xe
3768 by He, Ne, Ar, Kr, Xe	4597 by Xe
3715 by He, Ne, Ar, Kr, Xe	
3246 by He, Ne, H	
3986 by N_2	T
4073 by N_2 , H_2O	3203 by Ar

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3275 by Ar	
3464 by Ar	Ne I
4809 by Ar	
4720 by Ar	C,T
3681 by Ar	4779 by He
4828 by Ar	
4173 by Ar, Kr, He, Xe	
3777 by Ar, Kr, Xe	E
3919 by Ar, Kr, Xe	3140 by He
4827 by Ar, Xe	3595 by He-Ne, Ne
4361 by H	3323 by He, Ne
4399 by H	3616 by He, Ne
4400 by H	3615 by He, Ne
4401 by H	4122 by He, Ne
4953 by H	3979 by He, Ne
3748 by He	3953 by He, Ne
4016 by He	3954 by He, Ne
3899 by He	3864 by He, Ne
4088 by He	3617 by He, Ne
3093 by He	4276 by He, Ne
4718 by He, Ar	4423 by He, Ne
3106 by He, Ar, Kr, Xe	4961 by He, Ne
4952 by He, H, Ne, Ar, Kr, Xe	4473 by He, Ne, Ar, Kr
3302 by He, Ne, Ar, Kr, Xe	3260 by He, Ne, He-Ne
3832 by He, Ne, Ar, Kr, Xe	3141 by Ne
4194 by He, Ne, Ar, Kr, Xe	4384 by Ne
4392 by He, Ne, Ar, Kr, Xe	4551 by Ne
4540 by He, Ne, Ar, Kr, Xe	4180 by Ne
4746 by He, Ne, Ar, Kr, Xe, N ₂ , Na	4087 by Ne
4055 by He, Ne, Ar, Xe	4272 by Ne
3450 by Hg	4632 by Ne
3238 by H, He, Ne, Ar, Kr, Xe	
4274 by K	
4213 by Na, K	E,T
3364 by Ne	4744 by He, Ar, Ne
4731 by Ne, Xe	3438 by He, Ne
3372 by NO, CO	3487 by Ne

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3567 by Ne

T

4854 by He

4946 by He

4341 by He-Ne, Ne

3088 by He, Ne

3599 by He, Ne

4122 by He, Ne

3439 by Ne, He

3204 by Ne, He-Ne

Pb I

E

4199 by air-C₂H₂, air-H₂

4983 by Pb

E, T

5038 by Ar, He

Rb I

C

4063 by He, Ne, Ar, Kr, Xe

C, E, T

3921 by Ar, N₂

E

4441 by Ar, He

3794 by CH₄

4011 by Cs, K

3674 by He

4487 by He

4997 by He

3486 by He, Ar

4442 by He, Ar

3929 by He, Ar, Xe

3933 by He, Ne, Ar

3311 by He, Ne, Ar, Kr

3608 by He, Ne, Ar, Kr

3186 by He, Ne, Ar, Kr, Xe

3678 by He, Ne, Ar, Kr, Xe

4062 by He, Ne, Ar, Kr, Xe

4325 by He, Ne, Ar, Kr, Xe

4329 by He, Ne, Ar, Kr, Xe

4642 by Ne, Kr, H₂

3569 by Rb

3885 by Rb

3403 by Rb

4116 by Xe

4070 by Xe

3609 by Xe, N₂, CH₄

E, T

3798 by He, Ar

3442 by He, Ne, Ar, Kr, Xe

3118 by N₂, Ar

3193 by N₂, He

4643 by Rb

T

3215 by Ar, Kr, Xe

3240 by Ar, Kr, Xe

3134 by He

3106 by He, Ar, Kr, Xe

4939 by He, Ar, Kr, Xe

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3135 by He, Ne, Ar, Kr, Xe
 3435 by He, Ne, Ar, Kr, Xe
 4746 by He, Ne, Ar, Kr, Xe, N₂, Rb
 3831 by He, Xe
 3832 by He, Xe
 4173 by He, Xe
 3238 by H, He, Ne, Ar, Kr, Xe
 5030 by K, Rb
 4352 by Kr
 3093 by Kr
 3324 by N₂, He
 4964 by Rb, K, Cs
 3254 by Xe
 3955 by Xe
 4275 by Xe

Si I

E, T
 3374 by H

T
 3203 by Ar

Sm I

E
 4769 by He
 4398 by He, Ar
 4646 by He, Ne, Ar, Kr, Xe
 4645 by Kr

Sr I

C, T
 4056 by Ar, Kr, Xe

E
 3150 by Ar
 3656 by He, Ar
 3826 by He, Ar
 3961 by He, Ar, Kr, Xe
 3939 by He, Ne, Ar, Kr, Xe
 4700 by He, Ne, Ar, Kr, Xe
 4005 by He, Ne, Kr
 3414 by He, Xe
 3930 by He, Xe
 4070 by Xe

E, T

3540 by Ar-O₂-H₂
 3663 by Ar, Xe
 3540 by N₂-O₂-H₂

T

3203 by Ar
 4469 by Ar
 4506 by Ar
 4286 by He, Ne
 5018 by Xe

Sr II

E
 4588 by Ar
 3656 by He, Ar
 3826 by He, Ar
 4373 by He, Ne, Ar

Perturbed element; perturbing element; reference number as in part 3.

Tl I

E

3381 by Ar
 4363 by Ar
 3571 by Ar
 4844 by Ar, He
 4205 by CO
 3876 by CO₂
 3510 by H₂
 3341 by H₂
 4620 by He, Ar
 4490 by He, N₂
 3924 by He, Ne, Ar, Kr, Xe
 4539 by He, Ne, Ar, Kr, Xe
 4261 by He, Ne, Ar, Kr, Xe, H₂, N₂,
 CO₂
 3121 by He, Ne, Ar, Kr, Xe
 3223 by Hg
 3875 by N₂
 4364 by N₂, He
 4570 by Ne, Ar
 4571 by Ne, Ar
 3571 by Ne, Kr, Xe
 4059 by SF₆
 3208 by Tl

E, T

3512 by D₂
 3705 by He, Ne, Ar
 3874 by He, Ne, Ar, Kr, Xe
 4354 by He, Ne, Ar, Kr, Xe, H₂, D₂,
 O₂, N₂, CO₂, SF₆, CO
 4668 by He, Ne, Ar, Kr, Xe
 4651 by He, Ne, Ar, Kr, Xe

3570 by Hg

3511 by Kr, Xe
 4692 by Kr, Xe
 4691 by Kr, Xe
 4789 by Ne, Ar
 4331 by Tl
 4039 by Xe
 4040 by Xe

T .

4703 by Ar
 3239 by Ar, Kr, Xe
 3382 by Ar, Kr, Xe
 4151 by Ar, Kr, Xe
 3947 by He, Kr, Xe
 4247 by He, Ne, Ar, Kr, Xe
 4497 by He, Ne, Ar, Kr, Xe

Tm I

E

4398 by Ar
 4128 by He
 4539 by He
 4645 by Kr
 4944 by Xe

U I

E, T

4241 by He, Xe

Xe I

E

4990 by He, Ne, Ar

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3232 by He, Ne, Ar, Xe
5027 by He, Ne, Ar, Xe
3393 by He, Xe
4122 by He, Xe
3657 by Xe
4051 by Xe
4145 by Xe
3959 by Xe

E,T

3194 by He
3757 by He, Ne, Ar, Xe
3870 by Xe

T

4946 by He
4853 by He, Ne
4122 by He, Ne, Ar, Kr, Xe
4947 by Ne
3327 by Xe

Yb I

E

5020 by He, Ne, Ar, Kr, Xe, Yb

E,T

5043 by He
4538 by He, Ar, Xe

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5. ERRATA

<u>Reference No.*</u>	<u>Corrections or Additions to NBS Special Publication 366, Supplement 3 (1978)</u>
2760	In Part 2, add the classification of Na I (Stark, T).
2913	In Part 3, change the reference to the English translation: Sov. Phys.--JETP 46, 209 (1977).
2996	In Part 1, add the classification of 1.6.4. In Part 2, delete Na I and K I (Stark, E).
3058	In Part 1, add the classification of 1.4.3. (E).
3061	In Part 1, add the classification of 1.1.2.2. (T).
3075	In Part 1, add the classification of 1.3.4. (E).

*The numbers refer to paper identification numbers of Part 3 of the third supplement to the original bibliography.

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