

Subject and Object Index

β Lyr, 112
 χ Ori, 25
 ϵ Aur, 246, 258
 η Car, 252
 γ Cyg, 252
 λ And, 141
 λ Eri, 160
 ν Oph, 97–99
 π^1 UMa, 149
 ρ Oph, 212
 σ Cen, 163
 σ^2 CrB, 164
 τ CrB, 97–99
4U 0114+65, 162
4U 1608-522, 319, 325

A 0620-00, 330, 333
AA Tau, 205
AB Aur, 232, 233
AB Dor, 27, 168, 204, 205, 426, 427
accretion, 193, 195, 197, 199, 215, 221,
269, 274, 279, 282, 304, 309,
330
accretion disk, 129, 198, 282, 288, 289,
294, 301, 448
accretion luminosity, 196, 312
activity cycles, 105
AD Leo, 17, 32–35, 87, 88, 92, 116, 143,
182
AE Aqr, 268–273, 276, 278, 293
AF Psc, 92, 94
AG Dra, 262
AH Her, 292
AK Sco, 205
Algol, 36, 150, 154, 164–167, 193
Algol stars, 24, 159, 193

Alpha Persei cluster, 122
AM Her, 92, 302
Aql X-1, 320
AR Lac, 150, 164
ASCA satellite, 17, 156, 168, 318, 431
ASTRON satellite, 80
Atoll sources, 321
AU Mic, 15, 143, 146, 160
AXAF satellite, 156

B[e] stars, 227
B 13, 219
B 31, 417
B 32, 417
B 32A, 417
B 41, 219
BACODINE, 341, 348–352, 370, 372,
379, 385–387, 394, 442
BATSE, 342–345, 349, 369, 370, 381,
385, 441–444
BD+47° 819, 101, 102
BD+65° 1637, 223
black hole, 131, 321, 322, 324, 326, 334
BM And, 205
boundary layer, 294
BP Tau, 221
bremsstrahlung, 179, 180, 196, 197, 296
BV Cen, 292
BW Aqr, 162
BY Cam, 303
BY Dra, 15, 103, 105, 139
BY Dra stars, 24

Castor, 157
cataclysmic variables, 195, 237, 264, 278,
280, 288, 296, 302, 448

- CC Eri, 150, 170
 CF Tuc, 151, 164, 429
 CH Cyg, 260
 Chamaeleon, 212
 Chandrasekhar limit, 239
 chaotic variability, 82, 218, 342
 CI Tau, 205, 219
 Cir X-1, 325
 CN Com, 106, 107
 CO Ori, 205
 Coma, 122
 COMPTEL, 347, 351, 369
 Compton GRO, 197, 342, 358, 369, 385
 Compton scattering, 197–200
 coronal mass ejection, 3, 146, 193, 195
 Crab pulsar, 131
 CT Com, 70
 CU Cnc, 122
 CV Cha, 205
 CV Com, 70
 CY Mus, 162
 cyclotron radiation, 197, 296
 Cyg X-1, 323, 325
 CZ Cnc, 94
- dark-spot model, 103
 DD Ser, 232, 233
 DF Tau, 205, 219
 DG Tau, 205, 219
 DH Tau, 205
 DI Cep, 205
 DI Tau, 205
 diffusion, 5, 200, 240
 DK Tau, 205
 DL Tau, 205
 DM UMa, 163
 DN Tau, 205
 DO Tau, 205
 DoAr 21, 205
 DoAr 51, 205
 DR Tau, 205
 dwarf novae, 159, 264, 282, 285, 286,
 292
- eclipse mapping, 294, 300
 EGRET, 197, 342, 345, 347, 351, 352,
 358, 360, 361, 369, 371, 374,
 441, 443
 Einstein satellite, 17, 164, 170, 171, 203,
 212, 216, 320
- EK Dra, 24–26, 29, 31
 electron cyclotron maser, 32, 89
 emission measures, 137
 EQ 1839.6+8002, 171–173
 EQ Peg, 28
 ETA satellite, 370
 ETC camera, 351, 372, 385–387, 444
 EUVE satellite, 73, 146, 160, 169, 371,
 419
 EV Lac, 73–80, 82–85, 92, 110, 111, 133,
 134, 150, 155, 160
 EX Hya, 292
 EX Lup, 205
 EXO 040830-7134.7, 159
 EXOSAT satellite, 17, 149, 159, 164,
 170, 171
- FF Tau, 219
 FK Com stars, 14
 flare mass motions, 137, 178, 183
 flares, 3, 14–17, 19, 23, 36, 47, 73, 87,
 89, 91, 97, 101, 110, 119, 121,
 164, 177, 212, 216, 279, 286,
 423, 448
 flare transition regions, 137
 flare TR electron densities, 137
 flickering, 260, 278, 279, 288, 300, 447,
 448
 FU Ori, 245
 FY Aql, 371
 FY Tau, 218, 219
 FZ Tau, 218, 219
- G102–21, 92, 95, 96
 gamma-ray bursts, 91, 93, 341–346, 353,
 358, 363, 367, 376, 381, 385,
 389, 393, 400, 431, 441
 GB 781006B, 91, 93
 GB 790107, 368
 GB 790305b, 368
 GB 790324, 368
 GB 790331, 371
 GB 790418, 389–391
 GB 790613, 389–391
 GB 830313, 377
 GB 900222, 355
 GB 900320, 355
 GB 910503, 361
 GB 910601, 361
 GB 920325, 371

- GB 920501, 372
 GB 920723, 354, 355
 GB 930131, 361, 372
 GB 940217, 361, 371
 GB 940301, 361, 372, 373
 GB 941014, 385, 387, 388
 GBS 0008+13, 91, 93
 GBS 0855-00, 368
 Geminga, 419
 GG Tau, 205
 GI Tau, 205, 219
 Ginga satellite, 150, 159, 164, 171, 204,
 323, 431
 GK Tau, 205
 Gl 166C, 59
 Gl 412B, 59
 Gl 424, 59
 Gl 630.1, 59
 Gl 781, 59
 Gl 866, 59
 Gl 867B, 116
 GN Tau, 219
 GQ Lup, 205
 GQ Mus, 239
 Granat satellite, 353, 356
 GRO J0422+32, 132, 330, 332, 333
 GROCE, 351, 370, 372
 Groombridge 1830B, 59
 GRS 0818-52, 160
 GRS 1100-77, 158, 160, 161
 GRS 1133+54, 160
 GRS 1148-66, 160, 162
 GRS 1624-37, 160, 162
 GRS 2037-40, 160, 162
 GRS 2220-15, 160, 162
 GS 1124-68, 323
 GS 2023+338, 326
 GV Tau, 217
 GW Lup, 205
 GW Ori, 205
 GX 17+2, 322
 GX 339-4, 326, 334
 gyrosynchrotron emission, 23, 36, 40

 Haro 1-16, 205
 HD 129333, 24
 HD 147365, 27
 HD 152678, 108
 HD 16157, 170
 HD 197890, 428

 HD 283447, 205
 HD 36705, 426, 427
 HD 5303, 429
 HD 560B, 204
 HDE 259431, 227
 He-burning, 319
 helium shell flash, 237, 240
 Her X-1, 419
 Herbig Ae/Be stars, 227
 HETE satellite, 370, 394, 444
 high speed photometry, 131, 221, 330
 HII 1136, 27
 HK Aqr, 139
 HO Com, 70
 HP Tau, 205, 219
 HP Tau G2, 205
 HQ Com, 70
 HQ Tau, 219
 HR 1099, 28, 36, 37, 39-41, 44, 159, 426,
 427
 HR 5110, 36
 HR 963, 31
 HR Del, 292
 HS Com, 70
 HST, 137
 HT Cas, 292, 294, 300, 301
 HV Com, 70
 HV Tau, 219
 Hyades, 212
 Hz 2411, 214
 HZ Her, 400

 IC 1318, 122
 IC 2391, 212
 IC 348, 212
 II Peg, 15, 17, 140, 141, 150
 IM Peg, 141
 IMB detector, 374
 IPN, 347, 351, 369
 IUE satellite, 18, 73, 137-139, 142, 143,
 145, 238, 280, 282
 IX Oph, 205

 KK Oph, 205
 KM Ori, 205
 KN Ori, 205
 KR Aur, 290, 291, 400

 LH α 332-17, 205
 LH 332-20, 161

- LIGO detector, 374
 LkH α 118, 205
 LkH α 234, 223
 LMC X-1, 334
 LMC X-3, 334
 loss-cone instabilities, 23, 35
 low-mass X-ray binaries, 163, 195, 196,
 319, 321, 330

 M15, 317
 M42/43, 119, 122
 magnetic activity, 149, 195
 Markov chain, 291
 mass loss rate, 195
 M dwarf flare stars, 14, 15, 17, 32, 47,
 51, 55, 57, 61, 63, 65, 67, 69,
 87, 91–93, 95, 115, 119, 121,
 125, 129, 131, 137–144, 148,
 149, 151, 159, 160, 171, 173,
 177, 185, 212, 416, 441, 444,
 445, 447–449
 MILAGRO detector, 372
 monitoring: optical, 115, 402
 Mont Blanc detector, 374
 MR Ser, 302
 MV Lyr, 303
 MWC 137, 227
 MWC 342, 227
 MWC 349, 228
 MX 2346-65, 158
 MXB 1735-44, 132, 330, 332, 333

 neutron stars, 129, 243, 274, 309–312,
 316, 317, 319, 321, 324, 326,
 419, 448
 NGC 2264, 122, 219
 NGC 7000, 122, 219
 NGC 7129, 223
 noise, 290, 321–324, 326
 novae, 237, 264, 447

 OPAL opacity, 237
 optical transients, 91, 93, 367, 376, 381,
 385, 389, 393, 400, 441, 443,
 444
 Orion, 212, 219
 OY Car, 286

 plate collection, 397, 402, 407, 412, 416,
 441

 Pleiades, 122, 212
 PMS stars, 149
 power spectra, 277, 290, 322, 323, 325
 Praesepe, 122
 prefiltering technique, 133
 Procyon, 26
 Proxima Cen, 62, 156, 164
 PSR 0656+14, 419
 PSR 1937+21, 131
 PSR J0437-4715, 419, 421
 PU Vul, 245–253, 255, 257

 quasi-periodic oscillations, 277, 303, 319,
 321

 R CrB, 249
 R Mon, 205
 radio continuum emission, 23
 radio flares, 23, 32, 40, 42, 44, 89, 177,
 268
 Rapid Burster, 319
 RE J0241-53N, 67, 68
 RE J0604-34, 68
 RE J0625-60, 68
 RE J2055-17B, 68
 reconnection, 3–8, 11, 12, 146, 150, 154–
 156, 170, 177, 197, 198, 200
 ROSAT satellite, 17, 24, 29, 67, 69, 79,
 87, 89, 149, 160, 164, 165, 167,
 170, 171, 212, 216, 423–429
 ROX 20, 161
 ROX 3, 205
 RR Pic, 239
 RR Tel, 252
 RS CVn stars, 14, 15, 18, 19, 24, 36, 40,
 106, 107, 137, 140, 141, 144,
 145, 148–150, 159, 162
 RV Mic, 162
 RW Aur, 203, 205
 RW Tri, 300
 RX And, 292
 RX J1219.7+1630, 106
 RX J1235.5+1954, 69–71
 RX J1253.6+2247, 69–71
 RX J1256.8+2329, 69–71
 RX J1258.9+2112, 69–71
 RX J1300.5+2255, 70, 71
 RY Sct, 112
 RY Tau, 205, 207, 219

- S 10933, 91, 92, 94
 S 10935, 69–71
 S 10936, 69–71
 S 10937, 69–71
 S 10938, 69–71
 S 10939, 70, 71
 S CrA, 205
 Sco X-1, 289, 322
 Scorpius-Ophiuchus, 122
 shear mixing, 240
 shot noise, 296, 304
 SMM satellite, 4, 180, 371
 soft gamma-ray repeaters, 346, 368, 431
 solar flare frequency, 3, 45
 solar X-ray emission, 3, 148
 Sonneberg Observatory, 69, 91, 106, 107,
 203, 207, 229, 262, 381, 399,
 400, 402, 412, 451–454
 Soudan detector, 374
 SR 12, 205
 SR 4, 205
 SR 9, 205
 SS Aqr, 162
 SS Cyg, 283, 292
 star clusters, 47, 55, 63, 65, 122, 212,
 216
 SU Aur, 205
 SU Tau, 219
 SU UMa stars, 265
 Sun, 3, 14, 15, 18, 35, 40, 45, 47, 77,
 139, 148, 149, 151, 152, 155,
 170, 177, 195, 212, 353
 sunspots, 9, 13, 45
 supernovae type Ia, 241
 supernova type Ia, 448
 SVS 1099, 219
 SY Cnc, 292
 SY Tau, 205
 symbiotic novae, 245
 synchrotron radiation, 129, 197, 269
 Sz 68, 205
 SZ Cha, 205

 T Cha, 205
 T CrB, 239
 T Tau, 205, 218, 219
 T Tau stars, 14, 24, 47, 51, 55, 63, 158,
 203, 212, 216, 218, 221, 289
 Taurus dark cloud, 122
 TiO band, 86, 111

 TT Ari, 288, 289, 302, 303
 TT Lupi, 157
 TU Men, 286, 287
 TW Cha, 205
 TW Hya, 205
 two-ribbon flares, 3, 150, 164, 170
 TY Mus, 162

 U Cep, 193
 U CrB, 193
 U Gem, 300
 U Gem stars, 265
 u Her, 193
 U Mic, 162
 U Sco, 239
 UV Cet, 89, 92, 116
 UV Mus, 162
 UV sources, 67, 241, 243, 282, 419, 444
 UV spectroscopy, 137, 282
 UX Ari, 36, 42, 150, 159
 UX Tau A, 205
 UX UMa stars, 288

 V1005 Ori, 17, 139
 V1036 Tau, 417
 V1054 Oph, 108, 109
 V1118 Ori, 229–231
 V1143 Ori, 229–231
 V1194 Ori, 417
 V1263 Ori, 418
 V1297 Ori, 418
 V1500 Cyg, 253
 V1668 Cyg, 238
 V2051 Oph, 292
 V350 Cep, 223
 V367 Cyg, 112
 V370 Ori, 205
 V371 Ori, 76, 77
 V394 CrA, 239
 V410 Tau, 219
 V426 Oph, 292
 V436 Cen, 292
 V442 Cen, 286
 V518 Per, 132
 V590 Tau, 219
 V603 Aql, 292
 V616 Mon, 132
 V654 Her, 97–99
 V711 Tau, 17, 28, 37, 39, 44, 141, 426,
 427

- V733 Tau, 205
- V745 Sco, 239
- V819 Tau, 205
- V826 Tau, 205
- V827 Tau, 205, 207
- V830 Tau, 205
- V834 Cen, 296, 297, 299
- V836 Tau, 205
- V853 Oph, 205
- V927 Tau, 218, 219
- V955 Tau, 219
- VHE gamma-rays, 78, 79, 268, 441
- VLBI, 23, 36, 42, 44
- VV CrA, 205
- VW Cha, 205
- VW Hyi, 280, 292
- VY Scl, 292, 293
- VY Scl stars, 288
- VY Tau, 219

- W Serpentis stars, 112
- W Uma stars, 159
- WA/1 CrA, 205
- WA/2 CrA, 205
- WA/3 CrA, 205
- Wakuda's object, 245
- WATCH, 158–162, 353, 394
- white dwarf, 129, 196, 237, 240, 269,
274, 282, 294, 296, 312
- Wolf 630 AB, 108
- WW Cet, 292
- WX Hyi, 292
- WZ Sge, 292

- X-ray bursts, 159, 309, 319
- X 1755-338, 334, 335
- X 2127+119, 317, 319
- XMM satellite, 156

- YOHKOH satellite, 4, 7, 180
- YY Gem, 17, 18, 150, 159
- YZ CMi, 116, 138, 139
- YZ Cnc, 292

- Z Cha, 286, 287, 292
- Z CMa, 228
- Z sources, 321