

SUBJECT INDEX

- Abundances 22,23,24,77,420
- Acoustic Flux
 - vs Spectral type 606
- Activity Cycles 146,147,148,166,169,350,351,352,399
 - Model of 591,642
 - vs (B-V) 593
 - vs Rotation period 148,196,599
- Activity Parameters (cf specific parameters)
- Angular Momentum (Pleiades K stars)
 - vs Mass 191
- Atmospheric Structure
 - RS CVn stars, in 443
 - Chromospheric emission line variability, from 41,61,443
 - Photometric variability, from 41
 - W UMa stars, in 455
- Balmer Spectrum
 - Decrement in flares 214,227,229
 - Diagnostic use in flares 227,377
 - Flare spectrum 203,214,227,239,368,562
 - Formation of 177
- H α
 - RS CVn stars, in 368
 - Flare-like variability 369
 - vs Photometric wave 369
 - FK Com stars, in 374
 - Flare, in 369
 - Reversal in flares 229
 - T Tauri stars, in 229
 - Model of profile 625
 - Variability 501
 - vs Polarization 515
- H β
 - Flare, in 237
 - Preflare dips, in 237
- L $_X$, derived from 228

- Profiles in flares 216,229,238,369,513
- Search for, in emission, in low-mass dwarfs 92
- Bolometric Luminosity (L_{bol}) 19
 - Bolometric correction (BC) 19
 - vs Colour 21
 - vs Radius 21
- CA II H & K 71
 - RS CVn stars, in 363
 - FK Com stars, in 372
 - Diagnostic use 377
 - Flarelike variations 197,367
 - Solar flares, in 210
 - Stellar flares, in 216
 - Surface flux F(Ca II) in RS CVn's 75,364,366
 - vs F_X 419
 - Variation, cyclic 146,195
 - vs Age 71
 - vs Acoustic flux 606
 - vs (B-V) (=Vaughan-Preston diagram) 67
 - vs Binary phase 367
 - vs He I λ 10830 372
 - vs Mass 72
 - vs (R-I) 67
 - vs Rotation 71,196,367
 - Wilson intensities, calibration 365
- Chromospheres
 - Emission lines vs spots 145
 - UV line fluxes in Hyades stars 131
- Close Binaries-Period Distribution 391
- Coronae
 - Late-type stars 86
 - L_X vs L(NV) 456
 - Models 423
 - Physical parameters 61,97,127,261,282,332,422,443
 - Solar 84
 - Structure of 443
 - Temperature vs L_X 98
 - Transients 301^X
- Diagnostic Spectral Lines 62,64,234,372,377,439
- Differential Rotation 168,351,353,387,650
- Dynamo 531,579,642
 - Bimodal (Vaughan-Preston gap) 592
 - "Maunder" minima 585
 - Saturation 458
 - Timescales 583
 - Turn-of in low-mass stars 97
 - Waves 598,642
- Emission Measure
 - Distributions 62,509
 - Flares, in 228,230,271,296,316
 - X-ray EM in RS CVn's 422

EUV Emission

- Solar flares, in 211,565
- Stellar flares, in 217
- Sunspots, in 325

Filling Factors

- Magnetic fields 103,150
- Starspots 421

Flares, Solar

- Coronal heating, cf 560
- Coronal transients 301
- Electron beams 298,318,321
- Flash-phase 208,291,293,309,321,340
- Gamma-ray spectra 295,318
- General description 265,289,546,561
- Homologous flares 301,560
- Light curves 562
- Mass motions in 297,299,313,322
- Microwave emission 297
- Optical flare spectra 209
- Proton flares 528
- Radio interferometry of flaring regions 331,335,343
- Stellar flares, cf 247,264,561
- Thermal phase 291,321
- Two-ribbon flares 309
- X-ray data 289,307
- White light flares 562,565

Flares, Stellar

- Colours of 159,239,563
- Continuous heating in 263,269
- RS CVn stars, in 349,368,411,420,424,430,443
- Energy in optical 159,163,165,224,412
- General description 157,265,561,573
- Light curves 157,163,166,203,218,239,562
- Mass motion 218,238,617
- Microflaring 162,198
- Models 527,554,561,567,609,617,625,628
- Optical photometry 157,203,239,246,412
- Optical spectroscopy 197,203,211,214,216,224,229,237,239,246
- Preflare dips/rises 168,204,613
- Radio data 273,430
- Solar flares, cf 247,264
- Time distribution 161-167, 432
- T Tau stars, in 503
- W UMa stars, in 481
- UV observations 246,249,443
- vs Spots 145,172,529
- X-rays, in 43,93,118,127,131,255,420,424

Flarelike Activity

- CA II 197,367
- RS CVn stars, in 367,411
- H α 369

- Red giants, in 251,254
- T Tau stars, in 501
- X-rays, in 97
- He λ 1640 Line 59,64,440
- He I λ 10830 Line 371,377
- Heating of Chromospheres/Coronae 10,44,49,101,538,605,618,625
- Hydromagnetic Waves 487,537
- IR Unidentified λ Emission Lines 327
- Light Curves 249,388,393,395,399,401,403,408,409,443,481,486,503
 - Amplitude vs period 189,346
 - Variability, of 176,179,189,346,348
 - vs UV line emission 444
- Loop
 - Coronal heating, by 101
 - Model 100,260,266,423,475
 - Parameters 98,102,261
 - Solar/stellar flares 268,316,551
- $L_{\text{opt}}/L_{\text{X}}$
 - Flares, in 228,264,291,565,619
- $L_{\text{X}}/L_{\text{bol}}$ 126,453
- Magnetic Cycles 42
 - Model for 579
- Magnetic Fields, Stellar 102,150,151,261,282,384,529,584,601
 - Braking 649
 - Buoyancy 645
 - Concentration of 530
 - Configurations 629,641
 - Filling factor 103,150
 - Flux vs equatorial velocity 152,633
 - Flux tubes 10,528,531,532,533,546,552,554,588,617,645
 - Instability 533,545,625
 - Variability 152,485,582
 - vs Convection 633,642,646
- Mass 22
 - Mass-luminosity relation 22
 - vs Angular momentum 191
 - vs Ca II emission 72
- Oscillations 660
 - Magnetic flux, of 485
 - Radio flares, in 280
 - Red-dwarfs, in 28
 - TR (over sunspots), in 301
- Physical Parameters of Dwarf-Stars 17,19,48,49,112
- Plages 43,249,443,529,535
- Polarization
 - Optical, in flare stars 169
 - Radio flares, in 277,279,331,335,573
 - T Tau stars, in 515
- Preflare Dips/Increases 168,169,204,237,613
- Radio
 - Emission from

- RS CVn stars 429,444
- BY Dra stars 429
- Flare stars 273,282,562
- T Tauri stars 505
- W UMa stars 429
- Emission
 - Parameters, definition 274
- Interferometry of solar AR 331,335
- Mechanisms 279,430
- Noise storms 300
- Oscillations 280
- Polarization 277,279,331,335,515,573
- Solar flares 296,297
- Stellar flares 276,278,368,430,431,565
 - Cumulative frequency diagrams 432,433
- Rotation (see also Differential Rotation) 27,28,29,148,176
 - Equatorial velocity vs magnetic flux 19,152,633
 - Periods vs activity cycle 148,196
 - Periods of RS CVn's 417
 - Periods vs equatorial velocity 113
 - Spindown 9
 - Velocity of T Tauri's 504
 - vs Ca II emission 71,196,366
 - vs Light curve amplitude 190
 - vs X-ray luminosity 416,633
- Scaling Laws 62,84,101,107,271
- Speckle Imaging 505,651
- Spectral Types
 - TiO band photometry, from 35
 - Spots, of 141
 - vs Colour 35
- Spot
 - Cooling 536,538
 - Cycles 146,169,350
 - Energy storage 536
 - EUV spectra in sunspots 325
 - Filling factor 423
 - Magnetic flux, in 382
 - Migration 144,168,185,350
 - Missing flux vs coronal heating 528,536,538
 - Models 139,153,185,326,379,382,403,423,483
 - Photometric and spectroscopic features 141,153,175,344,379
 - Physical parameters 139,141,143,144,325,379,384,527,532,539
 - Pleiades stars, in 189
 - Stability 532,534
 - Stars vs plage stars 535
 - T Tauri stars, in 503
 - W UMa stars, in 471,481
 - vs Chromospheric emission 145
 - vs Flaring 145,174,539
- Stars and Stellar Systems

- RW Aur 513
 44 Boo 451
 WY Cnc 399
 YZ CMi, flare of 25.10.1979 561
 RS CVn and RS CVn-stars 343,363,387,415,650
 Balmer emission in 368
 Ca II H & K emission in 363
 vs Binary phase 367
 vs Rotation rate 367
 Cycles 352,400
 Evolutionary status 463
 Evolution of light curve 345,348,351,387,395,399,403,409
 Flares on 349,411,420,429,445
 Mass loss from 354
 Migration of photometric wave 350,387,395,409
 Orbital period variations 353,388
 Photometric variability 75,344,387,393,395,399
 Rotation periods 399,403,417
 X-ray observations 417,454
 DI Cep 497,515
 VW Cep 451,454,479,481,485
 FK Com stars 372
 ε CrA 451
 BY Dra and BY Dra-stars
 Cycles 168,352
 Flares on 249
 Radio emission 429
 Gliese 182 77
 HR 1099 (see V711 Tau)
 AR Lac 401,443,445
 HK Lac 403
 EV Lac
 Flare/preflare dip 203
 Unseen companion 201
 AU Mic 249
 II Peg 168,185,443
 AI Phe 407
 T Tau and T Tau-stars 505,515
 Accretion model 625
 Activity 487,501,503
 Colour vs magnitude 501
 Evolutionary status 488
 Flares, FU Ori 490
 Nebulae, circumstellar extinction 498
 Formation of molecules 512,523
 Physical processes, in 519
 Polarization model 515
 Radio observations 505
 Stellar wind 507,509
 UV Spectra 508
 V711 Tau = HR 1099 383,409,498

- Xr UMa 411
- W UMa stars 447
 - Atmospheric structure 415
 - Activity indicators 469
 - Evolution of 447,463,465
 - Flare on 481
 - Orbital period variations 465,485
 - Orbital period, correlations with 454,457,475
 - Radio emission 429
 - Spectral type, correlations with 470,475
 - Spots on 471,482
 - UV spectra 448
 - X-ray data 452
- Stellar Structure and Evolution 25
- Transition Region
 - Flux vs Orbital period 457,470,474
 - vs Spectral type 470,474
 - vs X-ray 131,266,456,457,474
 - Flux ratios of UV line emissions 79
 - Hyades stars, in 131
 - Model 80
- UV Emission
 - RS CVn stars, in 443
 - Fluxes at Earth 115,131,443
 - Flux ratios 79
 - Line variability 60,249
 - vs photometric wave 444,451
 - Stellar flares, in 207,230,245,249,562
 - Surface fluxes 51,181,450
 - T Tau stars, in 509
 - W UMa stars, in 448
 - "Vaughan-Preston" gap 8,67,70,592
 - Model for 592
 - vs X-rays 266
- X-Rays
 - Abundances from 420
 - Coronal structure/parameters from 5,445
 - Flares, in 93,118,127,255,269,289,420,424,562,565
 - Fluxes at Earth 113,446
 - Hyades stars 131
 - L_X in flare stars 89,113,125,261
 - L_X , predicted from Balmer EM 228
 - L_X vs stellar parameters 87,92,98,115,116,453,457,470
 - Solar flares, in 289,307
 - Surface fluxes vs stellar parameters 51,87,117,416,419,604,633
 - Variability, short-term 92
 - vs He I 10830 372
 - vs UV line fluxes 266
 - W UMa stars, in 452