

PUBLICATION LIST – Beate Stelzer

Refereed publications

141. Joseph W., **Stelzer B.**, Magaudda E. & Vicanek Martínez T.
2024, A&A subm
Simultaneous X-ray and optical variability of M dwarfs observed with eROSITA and TESS
140. Poppenhäger K., Ketzler L., Ilic N., Magaudda E., Robrade J., **Stelzer B.**, Schmitt J. H. M. M. & Schneider P. C.
2024, A&A subm
The high-energy environment of the heavy sub-Earth GJ 367 b indicates likely complete evaporation of its atmosphere
139. Muñoz-Giraldo D., **Stelzer B.** & Schwobe A.
2024, A&A subm
Cataclysmic variables around the period-bounce: An eROSITA-enhanced multi-wavelength catalog
138. Magaudda E., **Stelzer B.**, Osten R. A., Pineda J. S., Raetz St., McKay M.
2024, A&A subm
Transitions in magnetic behavior at the substellar boundary
137. Rukdee S., Buchner J., Burwitz V., Poppenhäger K., Stelzer B., Predehl P.
2024, A&A in press
Unraveling Variability and Estimating Mass Loss of Exoplanets in the Triplet Star System LTT 1445
136. Schwobe A., Kurpas J., Baecke P., ... **Stelzer B.** among 22 CoIs
2024, A&A in press
Compact white-dwarf binaries in the combined SRG/eROSITA/SDSS eFEDS survey
135. Merloni A., Lamer G., Liu T., ... **Stelzer B.** among 141 CoIs
2024, A&A 682, A34
The SRG/eROSITA all-sky survey. First X-ray catalogues and data release of the western Galactic hemisphere

134. Armeni A., **Stelzer B.**, Claes R.A.B., + 9 CoIs
2023, A&A 679, 14
PENELLOPE. V. The magnetospheric structure and the accretion variability of the classical T Tauri star HM Lup
133. Caramazza M., **Stelzer B.**, Magaudda E., Raetz St., Güdel M., Orlando S. & Poppenhäger K.
2023, A&A 676, A14
Complete X-ray census of M dwarfs in the solar Neighborhood, I. GJ 745AB: Coronal-hole Stars in the 10 pc Sample
132. Muñoz-Giraldo D., **Stelzer B.**, de Martino D. & Schwöpe A.
2023, A&A 676, A7
New X-ray detections of magnetic period-bounce cataclysmic variables from XMM-Newton and SRG/eROSITA
131. **Stelzer B.**, Kindarkhedia D. & Klutsch A.
A&A submitted
X-ray emission from Gaia-selected ultracool dwarf candidates
130. Ilic N., ,Poppenhäger K., Dsouza D., Wolk S.J., Agüeros M. & **Stelzer B.**
2023, MNRAS 524, 5954
The first evidence of tidally induced activity in a brown dwarf-M dwarf pair: A Chandra study of the NLTT 41135/41136 system
129. Amazo-Gómez E. M., Alvarado-Gómez J. D., Poppenhaeger K., Hussain G. A. J., Wood B. E., Drake J. J., do Nascimento J. D., Anthony F., Sanz-Forcada J., **Stelzer, B.**, ... + 7 coauthors
2023, MNRAS 524, 572
Far beyond the sun: II. Probing the stellar magnetism of the young Sun ι Horologii from the photosphere to its corona
128. Fuhrmeister B., Coffaro M., **Stelzer B.**, Mittag M., Czesla S., Schneider P. C
2023, A&A 672, A149
A multi-wavelength view of the multiple activity cycles of ϵ Eridani
127. de Luca A., Israel G., ... + 15 CoIs + **Stelzer B.**
2022, MmSAI 93, 122
The ULTrAS project: Understanding the X-ray variable and transient sky

126. Stelzer B., Caramazza M., Raetz St., Argiroffi C. & Coffaro M.
2022, A&A 667, L9
The Great Flare of 2021 November 19 on AD Leonis. Simultaneous XMM-Newton and TESS observations
125. Magaudda E., Stelzer B. & Raetz St.
2022, AN 343, Issue 8, article Id. e20220049
First eROSITA-TESS results for M dwarfs: Mass dependence of the X-ray activity rotation relation and an assessment of sensitivity limits
124. Stelzer B., Bogner M., Raetz St. & Magaudda E.
2022, A&A 665, A30
Flares and rotation of M dwarfs with habitable zones accessible to TESS planet detections
123. Maldonado J., Colombo S., Petralia A., Stelzer B., ... (+16 CoIs)
2022, A&A 663, A142
The GAPS programme at TNG XXXIV. Activity-rotation, flux-flux relationships, and active region evolution through stellar age
122. Coffaro M., Stelzer B. & Orlando S.
2022, A&A 661, A79
The X-ray activity of the young solar-like star Kepler 63 and the structure of its corona
121. Stelzer B., Klutsch A., Coffaro M., Magaudda E. & Salvato M.
2022, A&A 661, A44 (*part of eROSITA Early Data Release paper splash*):
A first eROSITA view of ultracool dwarfs
120. Magaudda E., Stelzer B., Raetz St., Klutsch A., Salvato M. & J.Wolf
2022, A&A 661, A29 (*part of eROSITA Early Data Release paper splash*):
First eROSITA study of nearby M dwarfs and the rotation-activity relation in combination with TESS
119. Coffaro M., Stelzer B. & Orlando S.
2022, AN 343, Id.e10066
Characterizing X-ray activity cycles of young solar-like stars with solar observations
118. Bogner M., Stelzer B. & Raetz St.
2022, AN 343, Id.e10079
Effects of flares on the habitable zones of M dwarfs accessible to TESS planet detections

117. Manara C.F., Frasca A., Venuti L., ... Stelzer B., ...(+68 CoIs)
2021, A&A 650, A196
PENELLOPE: The ESO data legacy program to complement the Hubble UV Legacy Library of Young Stars (ULLYSES). I. Survey presentation and accretion properties of Orion OB1 and σ -Orionis
116. De Luca A., Salvaterra R., Belfiore A., ... Stelzer B., ...(+28 CoIs)
2021, A&A 650, A167
The EXTraS project: Exploring the X-ray transient and variable sky
115. Modirrousta-Galian D., Stelzer B., Magaudda E., ...(+5 CoIs)
2020, A&A 641, A113
GJ 357 b. A super-Earth orbiting an extremely inactive host star
114. Frasca A., Manara C. F., Alcalá J. M., ...(+4 CoIs), Stelzer B., Fedele D.
2020, A&A 639, L8
ISO-ChaI 52: a weakly accreting young stellar object with a dipper light curve
113. Magaudda E., Stelzer B., Covey K., Raetz St., Matt S.P. & Scholz A.
2020, A&A 638, A20
Relation of X-ray activity and rotation in M dwarfs and predicted time-evolution of the X-ray luminosity
112. Klutsch A., Frasca A., Guillout P., Montes D., Pineau F.-X., Grosso N., Stelzer B.
2020, A&A 637, A43
Discovery of new members of the nearby young stellar association in Cepheus
111. Raetz St., Stelzer B., Damasso M. & Scholz A.
2020, A&A 637, A22
Rotation-activity relations and flares of M dwarfs with K2 long- and short-cadence data
110. Coffaro M., Stelzer B., Orlando S., (+ 6 CoIs)
2020, A&A 636, A49
An X-ray activity cycle on the young solar-analog ϵ Eridani
109. De Luca A., Stelzer B., Burgasser A. J., (+ 13 CoIs)
2020, A&A 634L, 13
EXTraS discovery of an X-ray superflare from an L dwarf

108. Venuti L., **Stelzer B.**, Alcalá J.M. (+ 9 CoIs)
 2019, A&A 632A, 46
X-shooter spectroscopy of young stars with disks: The TW Hydrae association as a probe of the final stages of disk accretion
107. Sanz-Forcada J., **Stelzer B.**, Coffaro M., Raetz S. & Alvarado-Gómez J.D.
 2019, A&A 631A, 45
Multi-wavelength variability of the young solar-analog ι Hor: X-ray cycle, star spots, flares and UV emission
106. Pizzocaro D., **Stelzer B.**, Poretti E., **Raetz St.**, ... (+6 CoIs)
 2019, A&A 628A, 41
Activity and rotation of the X-ray emitting Kepler stars
105. Saeedi S., Sasaki M., **Stelzer B.** & Ducci L.
 2019, A&A 627A, 128
Classification of low-luminosity stellar X-ray sources in the field of the Draco dwarf spheroidal galaxy
104. Pillitteri I., Sciortino S., Reale F., Micela G., Argiroffi C., Flaccomio E., **Stelzer B.**
 2019, A&A 623A, 67
Deep X-ray view of the Class I YSO Elias 29 with XMM-Newton and NuSTAR
103. Maier P., Wolf J., Keilig T.,, **Stelzer B.**....(+17 CoIs)
 2018, SPIE 10700, E4
Towards a European Stratospheric Balloon Observatory: the ESBO design study
102. Conti L., Barnstedt J., Hanke L.,, **Stelzer B.**....(+6 CoIs)
 2018, Ap&SS 363, 63
MCP detector development for UV space missions
101. Scholz A., Moore K., Jayawardhana R., Aigrain S., Peterson D., **Stelzer B.**
 2018, ApJ 859, 153
A Universal Spin-Mass Relation for Brown Dwarfs and Planets
100. Santos-Silva T., Gregorio Hetem J., Montmerle T., Fernandes B., **Stelzer B.**
 2018, A&A 609, A127
Star formation history of Canis Major OB1 - II. A bimodal X-ray population revealed by XMM-Newton

99. Alvarado-Gómez J.D., Hussain G.A.J., Drake J.J., Donati J.-F., Sanz-Forcada J., **Stelzer B.**, (+7 CoIs)
2018, MNRAS 473, 4326
Far beyond the Sun: I. The beating magnetic heart in Horologium
98. Manara C. F., Frasca A., Alcalá J. M., Natta A., **Stelzer B.**, Testi L.
2017, A&A 605, A86
An extensive VLT/X-shooter library of photospheric templates of pre-main sequence stars
97. Frasca A., Biazzo K., Alcalá J. M., Manara C. F., **Stelzer B.**, Covino, E., Antonucci, S.
2017, A&A 602, A33
X-Shooter spectroscopy of young stellar objects in Lupus: Atmospheric parameters, membership, and activity diagnostics
96. Alcalá J.M., Manara C.F., Natta A., Frasca A., Testi L., Nisini B., **Stelzer B.**, (+7 CoIs)
2017, A&A 600, A20
X-Shooter spectroscopy of young stellar objects in Lupus: Accretion properties of class II and transitional objects
95. **Stelzer B.**
2017, AN 338, 195
X-ray variability of cool stars: Magnetic activity and accretion
94. Antonucci S., Nisini B., Giannini T., Rigliaco E., Alcalá J.M., Natta A., **Stelzer B.**
2017, A&A 599, A105
X-Shooter spectroscopy of young stellar objects - VI - HI line decrements
93. **Stelzer B.**, de Martino D., Casewell S., Wynn G. & Roy M.
2017, A&A Letters 598, L6
X-ray orbital modulation of a white dwarf accreting from an L dwarf: The system SDSS J121209.31+013627.7
92. Scandariato G., Affer L., Maldonado J., Biazzo K., Leto G., **Stelzer B.**, (+20 CoIs)
2017, A&A 598, A28
The HADES RV Programme with HARPS-N@TNG IV. Time resolved analysis of the CaII H&K and H α chromospheric emission of low-activity early-type M dwarfs

91. Maldonado J., Scandariato G., **Stelzer B.**, (+23 CoIs)
 2017, A&A 598, A27
The HADES RV Programme with HARPS-N@TNG. III. Flux-flux and activity-rotation relationships of early-M dwarfs
90. Principe D.A., Sacco G. G., Kastner J. H., Wilner D., **Stelzer B.**, Micela G.
 2017, A&A 598, A8
The Multiple Young Stellar Objects of HBC 515: An X-ray and Millimeter-wave Imaging Study in (Pre-main Sequence) Diversity
89. **Stelzer B.**, Damasso M., Scholz A. & Matt S.P.
 2016, MNRAS 463, 1844
A path towards understanding the rotation-activity relation of M dwarfs with K2 mission, X-ray and UV data
88. Kastner J. H., Principe D. A., Punzi K., **Stelzer B.**, Gorti U., Pascucci I., Argiroffi C.
 2016, AJ 152, 3
M Stars in the TW Hya Association: Stellar X-Rays and Disk Dissipation
87. Schöller M., Pogodin M. A., Cahuasquí J. A., (+9 CoIs) **Stelzer B.**
 2016, A&A 592, A50
Spectroscopic signatures of magnetospheric accretion in Herbig Ae/Be stars. I. The case of HD 101412
86. Principe D. A., Sacco G., Kastner J. H., **Stelzer B.**, Alcalá J. M.
 2016, MNRAS 459, 2097
Evidence for variable, correlated X-ray and optical/IR extinction towards the nearby, pre-main-sequence binary TWA 30
85. Pizzocaro D., **Stelzer B.**, Paladini R., (+15 CoIs)
 2016, A&A 587, A36
Results from DROXO IV. EXTraS discovery of an X-ray flare from the Class I protostar candidate ISO-Oph 85
84. Antonucci S., Nucita A.A., Giannini T., Lorenzetti D., **Stelzer B.**, Gerardi D., Delle Rose S., Di Paola A., Giordano M., Manni L., Strafella F.
 2015, A&A 584, A21
First X-ray detection of the young variable V1180 Cas

83. **Stelzer B.**
 2015, AN 336, 493
Variability of young stellar objects: Accretion, disks, outflows, and magnetic activity
82. Osten R., Melis C., **Stelzer B.**, Bannister K.W., Radigan J., Burgasser A.J., Wolszczan A. & Luhman K.L.
 2015, ApJ 805, L3
The Deepest Constraints on Radio and X-ray Magnetic Activity in Ultracool Dwarfs from WISE J104915.57-531906.1
81. Borsa F., Scandariato G., Rainer M., ... **Stelzer B.**
 2015, A&A 578, A64
The GAPS Programme with HARPS-N at TNG. VII. Putting exoplanets in the stellar context: magnetic activity and asteroseismology of τ Bootis A
80. Maldonado J., Affer L., Micela G., Scandariato G., Damasso M., **Stelzer B.**, (+26 CoIs)
 2015, A&A 557, A132
Stellar parameters of early M dwarfs from ratios of spectral features at optical wavelengths
79. Frasca A., Biazzo K., Lanzafame A.C., Alcalá J.M., Brugaletta E., Klutsch A., **Stelzer B.**, (+29 CoIs)
 2015, A&A 575, A4
The Gaia-ESO Survey: Chromospheric emission, accretion properties, and rotation in γ Velorum and Chamaeleon I
78. Giannini T., Antonucci S., Nisini B., Lorenzetti D., Alcalá J.M., Bacciotti F., Bonito R., Podio L., **Stelzer B.**
 2015, ApJ 798, 33
Empirical determination of Einstein A-coefficient ratios of bright [Fe II] lines
77. Whelan E.T., Alcalá J.M., Bacciotti F., Nisini B., Bonito R., Antonucci S., **Stelzer B.**, Biazzo K., D'Elia V., Ray T.P.
 2014, A&A 570, A59
Accretion-ejection connection in the young brown dwarf candidate ISO-Cha1 217
76. Natta A., Testi L., Alcalá J.M., Rigliaco E., Covino E., **Stelzer B.**, D'Elia V.
 2014, A&A 569, A5

X-Shooter spectroscopy of young stellar objects: V - Slow winds in T Tauri stars

75. Whelan E.T., Bonito R., Antonucci S., Alcalá J.M., Giannini T., Nisini B., Bacciotti F., Podio L., **Stelzer B.**, Comerón F.
2014, A&A 565, A80

ESO-H α and Par-Lup3-4 jets: Exploring the spectral, kinematical, and physical properties

74. Alcalá J.M., Natta A., Manara C.F., Spezzi L, **Stelzer B.**, ... (+9 CoIs)
2014, A&A 561, A2

X-shooter spectroscopy of young stellar objects. IV. Accretion in low-mass stars and sub-stellar objects in Lupus

73. Giannini T., Nisini B., Antonucci S., Alcalá J.M., Bacciotti F., Bonito R., Podio L., **Stelzer B.**, Whelan E.T.
2013, ApJ 778, 71

The diagnostic potential of Fe lines applied to protostellar jets

72. **Stelzer B.**, Frasca A., Alcalá J.M., Manara C.F., Biazzo K., Covino E., Rigliaco E., Testi L., Covino S., D'Elia V.
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X-shooter spectroscopy of young stellar objects. III. Photospheric and chromospheric properties of Class III objects

71. **Stelzer B.**, Marino A., Micela G., López-Santiago J., Liefke C.
2013, MNRAS 431, 2063

The UV and X-ray activity of the M dwarfs within 10 pc of the Sun

70. Sanz-Forcada J., **Stelzer B.**, Metcalfe T.S.
2013, A&A 553, L6

ιHorologi, the first coronal activity cycle in a young solar-like star

69. Manara C.F., Testi L., Rigliaco E., Alcalá J.M., Natta A., **Stelzer B.**, ... (+6 CoIs)
2013, A&A 551, A107

X-shooter spectroscopy of young stellar objects. II. Impact of chromospheric emission on accretion rate estimates

68. **Stelzer B.**, Alcalá J.M., Scholz A., Natta A., Randich S., Covino E.
2013, A&A 551, A106

X-shooter spectroscopy of FU Tauri A

67. Costigan G., Scholz A., **Stelzer B.**, Ray T., Vink J.S., Mohanty S.
2012, MNRAS 427, 1344
LAMP: the long-term accretion monitoring programme of T Tauri stars in Chamaeleon I
66. Rigliaco E., Natta A., Testi L., Randich S., Alcalá J.M., Covino E., **Stelzer B.**
2012, A&A 548, A56
X-shooter spectroscopy of young stellar objects. I. Mass accretion rates of low-mass T Tauri stars in σ Orionis
65. Bayo A., Barrado D., Huélamo N., Morales-Calderón M., Melo C., Stauffer J., **Stelzer B.**
2012, A&A 547, A80
Spectroscopy of very low-mass stars and brown dwarfs in the Lambda Orionis star-forming region. II. Rotation, activity and other properties of spectroscopically confirmed members of Collinder 69
64. Pogodin M.A., Hubrig S., Yudin R.V., Schöller M., González, J.F., **Stelzer B.**
2012, AN 333, 594
Measuring the mass accretion rates of Herbig Ae/Be stars with X-shooter
63. López-Santiago J., **Stelzer B.** & Saxton R.
2012, PASP 124, 682
TYC 8380-1953-1: Discovery of an RS CVn Binary Through the XMM-Newton Slew Survey
62. Sacco G.G., Flaccomio E., Pascucci I., Lahuis F., Ercolano B., Kastner J.H., Micela G., **Stelzer B.**, Sterzik M.
2012, ApJ 747, 142
High-resolution Spectroscopy of Ne II Emission from Young Stellar Objects
61. Scholz A., **Stelzer B.**, Costigan G., Barrado D., Eislöffel J., Lillo-Box J., Rivière-Marichalar P., Stoev H.
2012, MNRAS 419, 1271
Magnetic activity and accretion on FU Tau A: clues from variability
60. **Stelzer B.**, Preibisch T., Alexander F., Mucciarelli P., Flaccomio E., Micela G., Sciortino S.
2012, A&A 537, A135
X-ray view of IC 348 in the light of an updated cluster census

59. **Stelzer B.**, Alcalá J., Biazzo K., Ercolano B., Crespo-Chacón I., López-Santiago J., Martínez-Arnáiz R., Schmitt J.H.M.M., Rigliaco E., Leone F., Cupani G.
2012, A&A 537, A94
The ultracool dwarf DENIS-P J104814.7-395606. Chromospheres and coronae at the low-mass end of the main-sequence
58. Hubrig S., Schöller M., Ilyin I., Wolff B., Cowley C.R., Pogodin M.A., Yudin R.V., **Stelzer B.**, Mikulásek Z.
2012, AN 332, 1022
Recent studies of magnetic fields in Herbig Ae/Be stars
57. Bayo A., Barrado D., Stauffer J., Morales-Calderón M., Melo C., Huélamó N., Bouy H., **Stelzer B.**, Tamura M., Jayawardhana R.
2012, A&A 536, A63
Spectroscopy of very low mass stars and brown dwarfs in the Lambda Orionis star forming region. I. Enlarging the census down to the planetary mass domain in Collinder 69
56. Hubrig S., Schöller M., Ilyin I., Cowley C.R., Mikulásek Z., **Stelzer B.**, Pogodin M.A., Yudin R.V., Curé M.
2012, A&A 536, A45
Characterising the magnetic fields of the Herbig Ae/Be stars HD 97048, HD 150193, HD 176386, and MWC 480
55. Bacciotti F., Whelan E.T., Alcalá J.M., Nisini B., Podio L., Randich S., **Stelzer B.**, Cupani G.
2011, ApJ 737, L26
The First X-shooter Observations of Jets from Young Stars
54. **Stelzer B.**, Hummel C.A., Schöller M., Hubrig S., Cowley C.
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Search of X-ray emission from roAp stars: the case of γ Equulei
53. Bonifacio P., Caffau E., (+10 CoIs), **Stelzer B.**, Zaggia S.
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Extremely metal-poor stars in SDSS fields
52. Alcalá J.M., **Stelzer B.**, Covino E., (+15 CoIs)
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An X-shooter survey of star forming regions: Low-mass stars and sub-stellar objects

51. Barrado D., **Stelzer B.**, Morales-Calderón M., Bayo A., Huélamo N., Stauffer J.R., Hodgkin S., Galindo F., Verdugo E.
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50. **Stelzer B.**, Scholz A., Argiroffi C., Micela G.
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The enigmatic young brown dwarf binary FU Tau: accretion and activity
49. Pillitteri I., Sciortino S., Flaccomio E., **Stelzer B.**, (+7 CoIs)
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Results from DROXO. III. Observation, source list and X-ray properties of sources detected in the ‘Deep Rho Ophiuchi XMM-Newton Observation’
48. Szeifert T., Hubrig S., Schöller M., Schütz O., **Stelzer B.**, Mikulášek Z.
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The nature of the recent extreme outburst of the Herbig Be/FU Ori binary Z Canis Majoris
47. Argiroffi C., Maggio A., Peres G., Drake J. J., Lopez Santiago J., Sciortino S., **Stelzer B.**
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X-ray optical depth diagnostics of T Tauri accretion shocks
46. **Stelzer B.** & Scholz A.
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A Chandra and Spitzer census of the young star cluster in the reflection nebula NGC 7129
45. Flaccomio E., **Stelzer B.**, Sciortino S., Micela G., Pillitteri I., Testi L.
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44. Hubrig S., **Stelzer B.**, Schöller M., Grady C., Schütz O., Pogodin M.A., Curé M., Hamaguchi K., Yudin R. V.
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Searching for a link between the magnetic nature and other observed properties of Herbig Ae/Be stars and stars with debris disks

43. **Stelzer B.**, Hubrig S., Orlando S., Micela G., Mikulášek Z., Schöller M.
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40. Hubrig S., Marco O., **Stelzer B.**, Schöller M. & Huélamo N.
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39. **Stelzer B.** & Micela G.
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38. Franciosini E., Pillitteri I., **Stelzer B.**, Micela G., Briggs K. R., Scelsi L., Telleschi A., Audard M., Palla F., Güdel M.
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The X-ray activity-rotation relation of T Tauri stars in Taurus-Auriga

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