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FLARE ACTIVITY OF V914 Sco

V914 Sco (= CSV2851) was shown to be a BY Dra-type variable (Busko, Quast and Torres, 1977), with a B amplitude of about 0.15 mag and probable period of 2.69 days. Herbig (1977) called attention to its duplicity, quoting an M3eV spectral type for the brighter component and M4eV for the fainter one. We estimated, based on photoelectric scans with small diaphragm, a difference of about 2 mag in the visual for the two components.

In 4 nights between April and June 1980, the star was monitored photoelectrically in the U band with the 1.6m telescope of Brazilian Astrophysical Observatory. A photometer with DC strip chart recording was used. Both components of the pair were included in the diaphragm.

Following the precepts of Kunkel (1973), flare light was referred not to the quiescent state of the star, which is poorly determined in ultraviolet, but to suitable comparison stars. The rate of occurrence of flares of peak magnitude less than U can be described by $R = \exp(U - U_0)$, with the parameter U_0 being a measure of the level of flare activity.

Table I - Coverage

JD	U.T.	
2444000+	From	To
352.5	6 ^h 16 ^m .0 - 7 ^h 27 ^m .0, 7 ^h 28 ^m .4 - 8 ^h 0 ^m .4	
358.5	5 22.0 - 5 49.0, 5 50.1 - 6 30.3, 6 ^h 50 ^m .5 - 7 ^h 02 ^m .1, 7 04.4 - 7 23.2, 7 24.6 - 7 38.0, 7 39.8 - 8 03.2, 8 04.5 - 8 16.9, 8 18.3 - 8 22.0	
365.5	4 41.2 - 5 01.8, 5 02.8 - 5 53.2, 5 54.3 - 6 15.5, 6 16.7 - 6 56.5, 6 57.6 - 8 00.2	
380.5	3 53.3 - 3 57.0, 4 00.0 - 4 14.0, 4 15.5 - 4 46.6, 4 47.8 - 5 10.2, 5 11.3 - 5 25.5, 5 26.5 - 6 05.3	

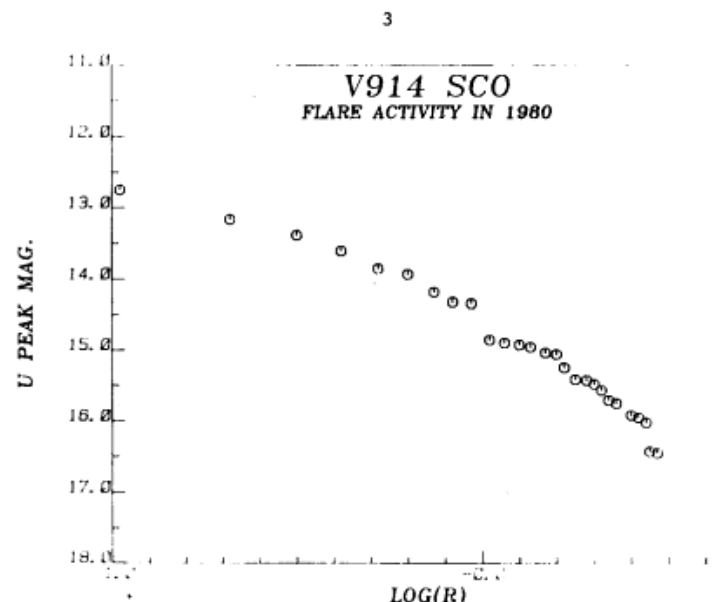


Figure 1: Cumulative rate of occurrence (in hr^{-1}) of flares brighter than magnitude U in V914 Sco.

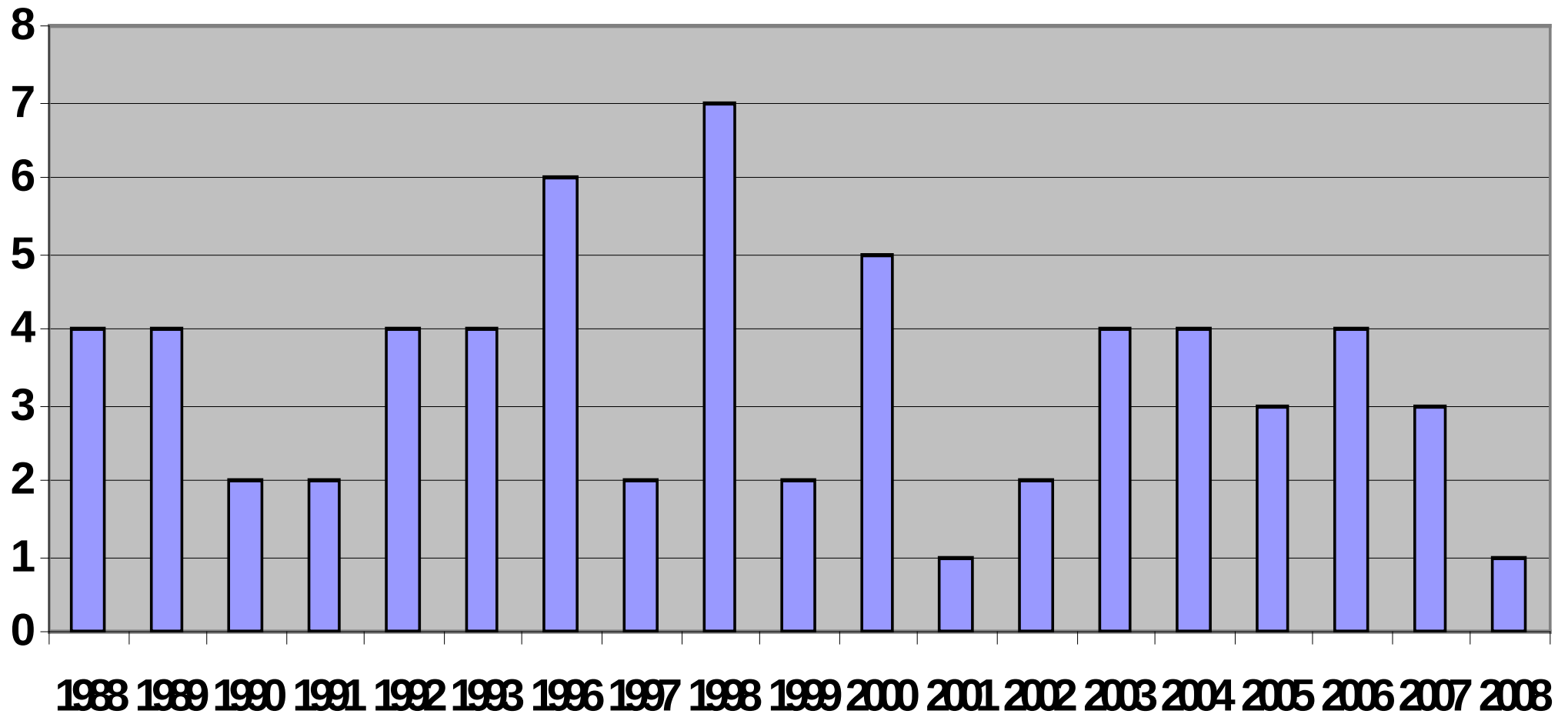
tral type, although the activity of BY Dra stars is in general high (Busko and Torres, 1978). Such a high activity has been found only in Gliese 182 (de la Reza, Torres and Busko, 1981).

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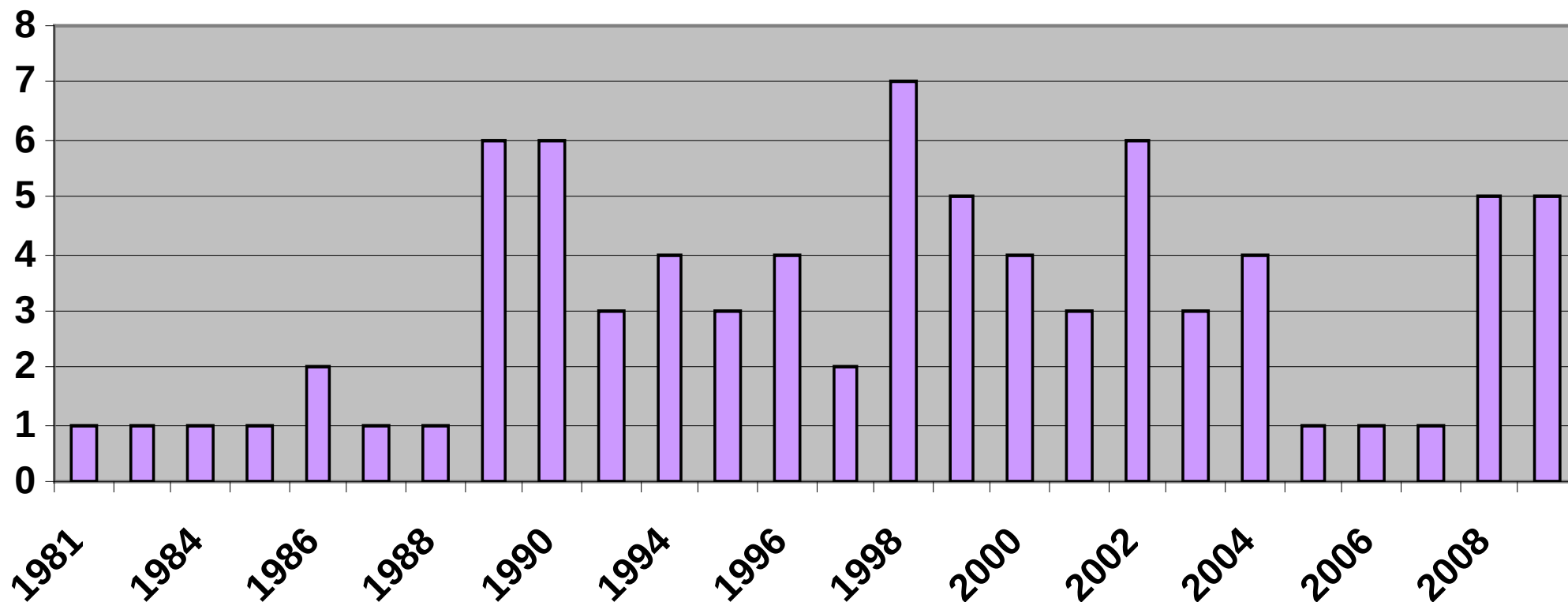
References:

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Busko, I.C., Quast, G.R., Torres, C.A.O., 1977, I.B.V.S. No. 1275
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Herbig, G.H., 1977, I.B.V.S. No. 1323
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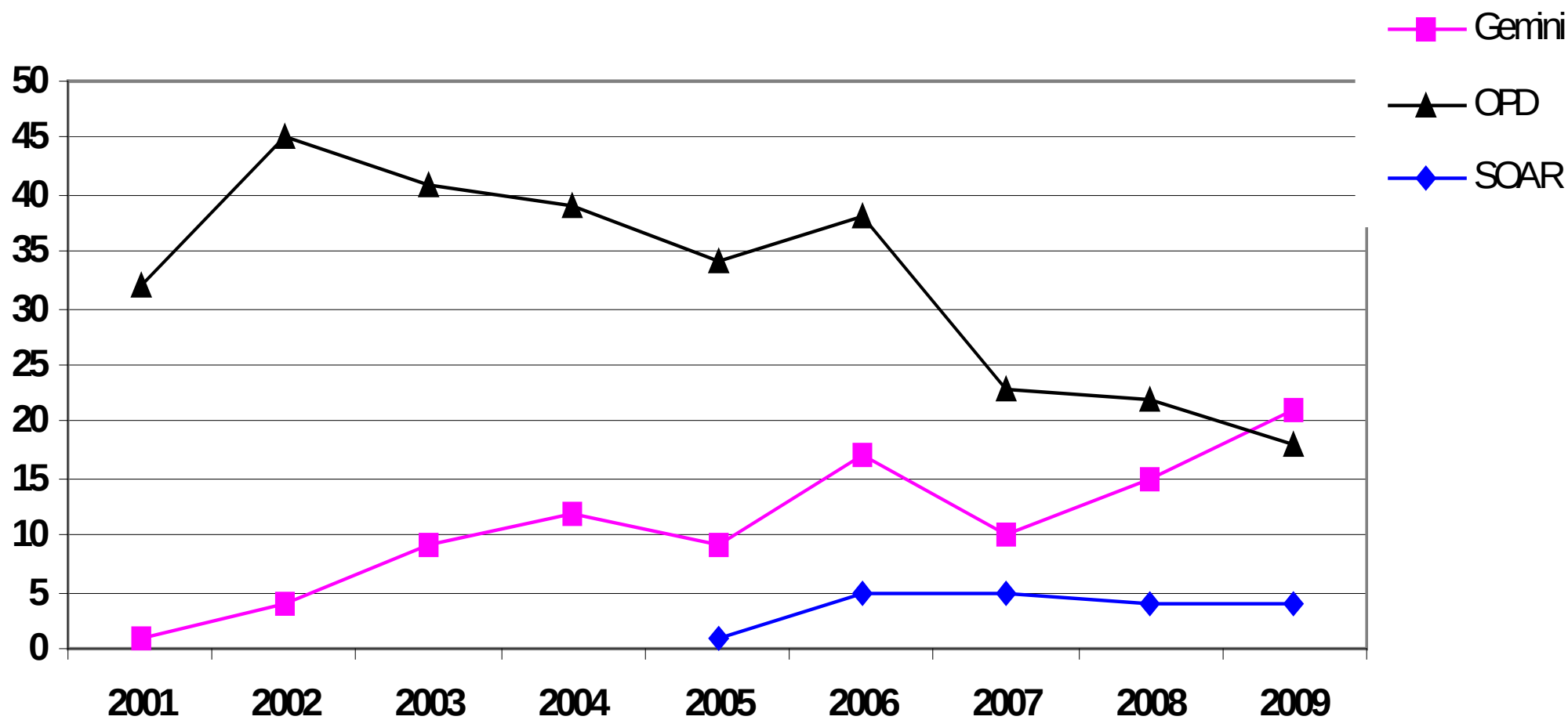
Tese de Doutorado para o CPD



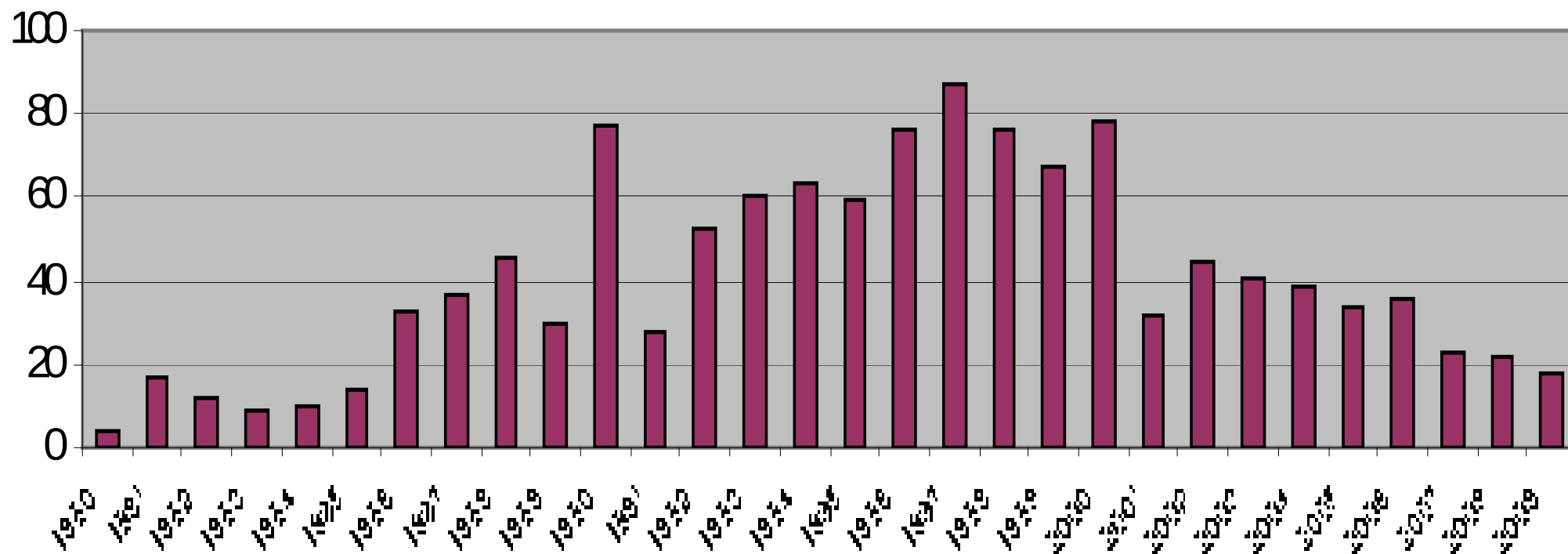
Dissertação de Mestrado para o OPD



Evolução das publicações do LNA



Publicações (Revistas Arbitradas, Teses, Dissertações, Congressos, Boletins, Resumos e outros) do CPD



N	Primeiro Autor	Ano	Revista	Volume	Pagina	Citação
1	Winget Don E.	1991	ApJ	378	326	236
2	Nather R.E.	1990	ApJ	361	309	230
3	Dias Wilton S.	2002	AA	389	871	212
4	da Costa Luiz Nicolaci	1988	ApJ	327	544	202
5	Damineli Neto Augusto	1996	ApJL	460	L49	196
6	Winget Don E.	1994	ApJ	430	839	186
7	Gregório-Hetem Jane C.	1992	AJ	103	549	164
8	Phillips Mark M.	1987	PASP	99	592	156
9	Maia Marcio A.G.	1989	ApJS	69	809	133
10	Damineli Neto Augusto	1997	New Astronomy	2	107	120
11	da Costa Luiz Nicolaci	1991	ApJS	75	935	118
12	da Costa Luiz Nicolaci	1998	AJ	116	1	116
13	Willmer C.N.A.	1998	AJ	115	869	110
14	Damineli Neto Augusto	2000	ApJL	528	L101	99
15	de la Reza Jorge Ramiro	1989	ApJL	343	L61	89
16	Torres Carlos Alberto O.	2000	AJ	120	1410	80
17	Kleinman S.J.	1998	ApJ	495	424	75
18	Vieira Sergio Luiz Araujo	2003	AJ	126	2971	67
19	Torres Carlos Alberto O.	1995	AJ	109	2146	66
20	Leitherer Claus	1994	ApJ	428	292	65
21	Motch C.	1997	AA	323	853	65
22	Kawaler S.D.	1995	ApJ	450	350	61
23	Kepler de Souza Oliveira	1991	ApJL	378	L45	60
24	de la Reza Jorge Ramiro	1997	ApJL	482	L77	59
25	Maciel Walter J.	2003	AA	397	667	53
26	da Costa Luiz Nicolaci	1984	AJ	89	1310	50