

ADAGIO et Bélesta dans l'espace

RICAR – 14/5/2022

L'observatoire de Bélesta en Lauragais et son télescope de 82 cm

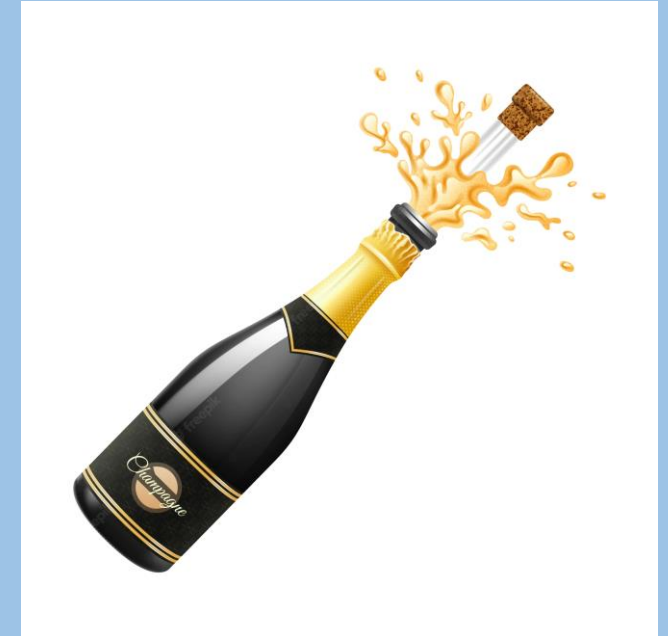




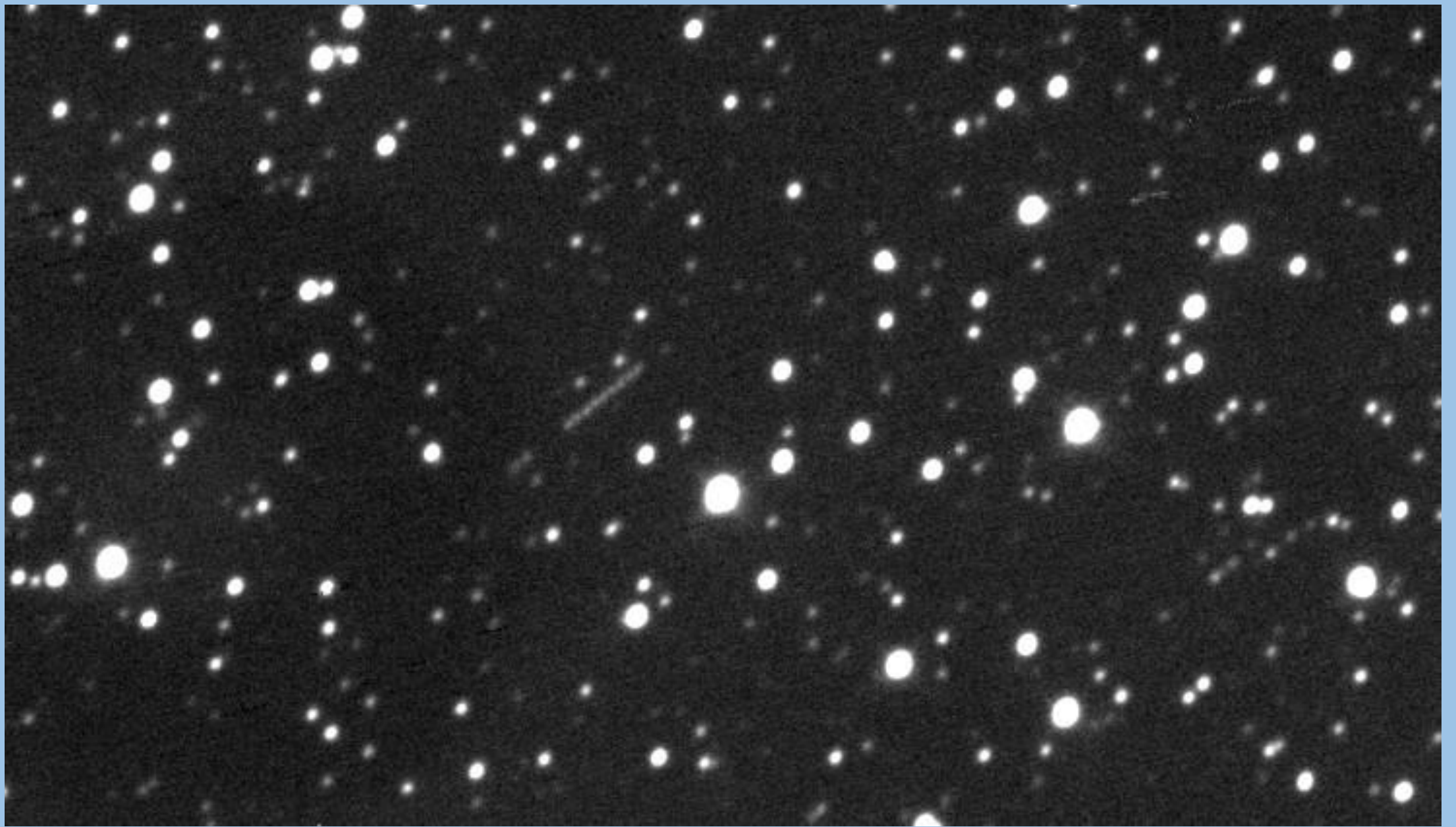
Association
pour le Développement
Amateur
d'un Grand
Instrument
d'Observation

En mars 2022, deux des astéroïdes découverts au T82 de l'observatoire de Bélesta en Lauragais ont été baptisés :

- (576901) Adagio : en l'honneur de l'association qui a construit l'observatoire et le T82
- (597993) Bélesta : en l'honneur de l'observatoire de Bélesta en Lauragais



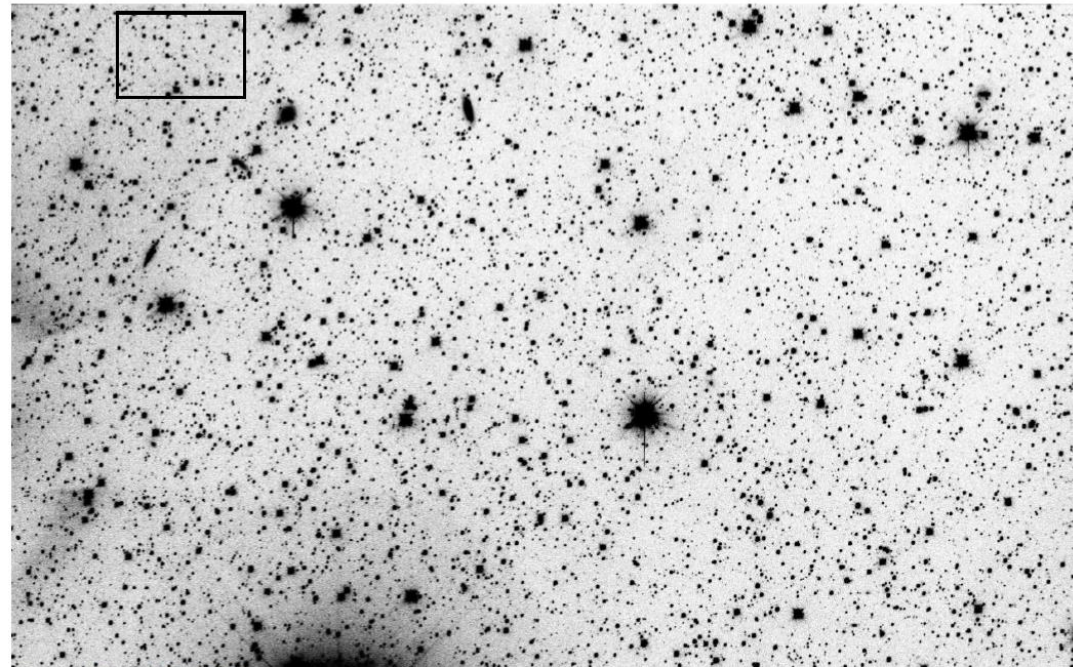
Mais comment peut-on découvrir
et baptiser un astéroïde ?



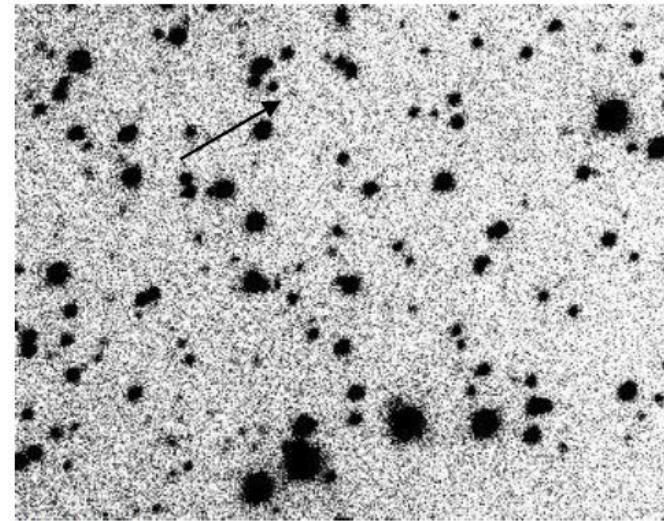
Apophis – 28/01/2013

1 – Trouver des astéroïdes sur les séries d'images de la nuit.

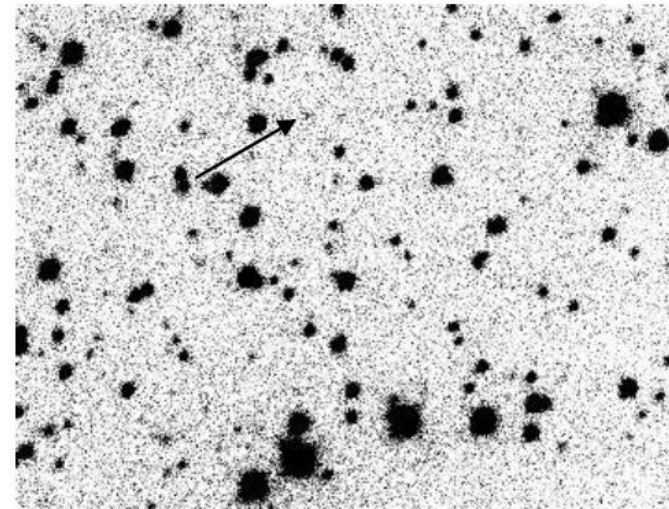
Images of the discovery of 2007RR282



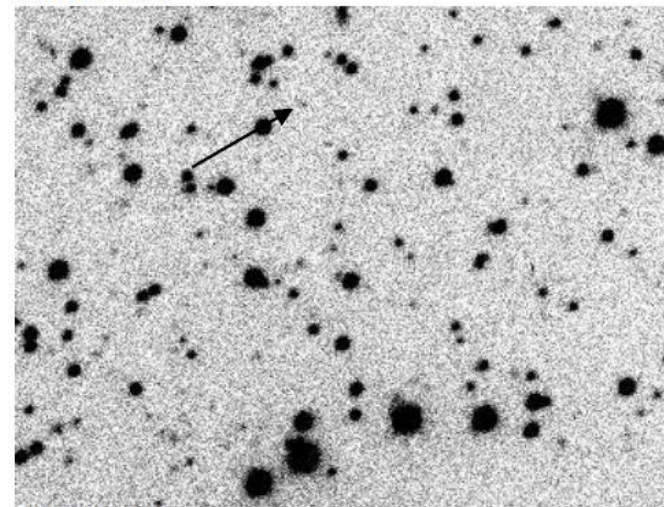
September 8th, 2007



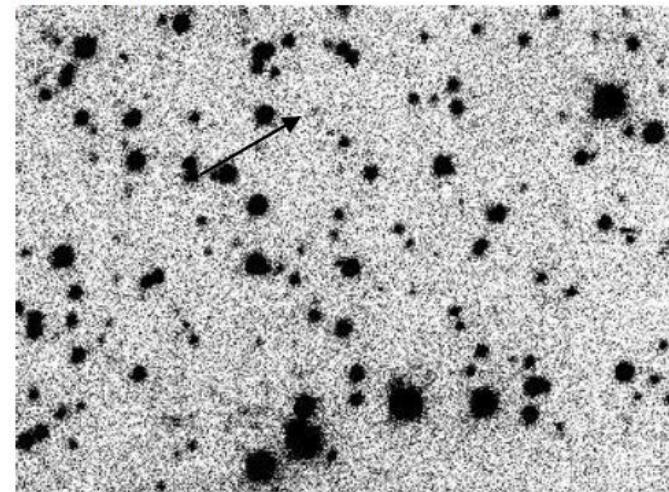
20h10 TU



21h39 TU



20h52 TU



21h51 TU

2 – Vérifier si l'astéroïde trouvé est déjà connu ou non.

MPChecker/CMTChecker/NEOChecker/NEOCMTChecker

Here are the results of your search(es) in the requested field(s) (positions are determined from elements integrated to a nearby epoch) :

The following objects, brighter than $V = 24.0$, were found in the 5.0-arcminute region around R.A. = 14 25 36, Decl. = -15 23 21 (J2000.0) on 2022 05 01.95 UT:

Object designation	R.A.			Decl.			V	Offsets		Motion/hr		Orbit	Further observations? Comment (Elong/Decl/V at date 1)
	h	m	s	°	'	"		R.A.	Decl.	R.A.	Decl.		
2009 TH18	14	25	37.3	-15	24	14	22.5	0.3E	0.9S	38-	9+	20d	Leave for survey recovery.
(83195) 2001 RJ1	14	25	36.8	-15	22	05	20.1	0.2E	1.3N	26-	8+	18o	None needed at this time.
2016 CM338	14	25	29.0	-15	24	30	21.6	1.7W	1.2S	28-	14+	5o	Desirable between 2022 May 2-June 1. (177.2,-15.4,21.6)
(455825) 2005 TL3	14	25	38.5	-15	19	19	20.9	0.6E	4.0N	35-	3+	6o	None needed at this time.

3 – Calculer la position estimée de l'astéroïde trouvé pour les nuits suivantes, et le retrouver lors d'une seconde nuit d'observation.

4 – Envoyer les coordonnées de l'astéroïde découvert au MPC (Minor Planet Center).

COD A05
 CON P. Martinez, Route de Revel, 31450 Varennes, France
 CON [patrick.martinez264@orange.fr]
 OBS P. Martinez, P.M. Berge, B. Lazare
 MEA P. Martinez
 TEL 0.82-m f/3.8 reflector + CCD
 AC2 patrick.martinez264@orange.fr
 NET USNO-A2
 ACK Batch 006

PMA003	*	C2008	01	28.79831	05	33	31.17	+28	44	34.3	20.4	R	A05
PMA003		C2008	01	28.82624	05	33	30.55	+28	44	37.4			A05
PMA003		C2008	01	28.85250	05	33	29.93	+28	44	40.1			A05
PMA003		C2008	02	02.79612	05	32	04.21	+28	52	17.6	20.7	R	A05
PMA003		C2008	02	02.86745	05	32	03.17	+28	52	23.8			A05
PMA003		C2008	02	02.89773	05	32	02.76	+28	52	26.0			A05
PMA004	*	C2008	01	28.79831	05	32	18.40	+28	34	27.3	20.3	R	A05
PMA004		C2008	01	28.82624	05	32	18.09	+28	34	17.3			A05
PMA004		C2008	01	28.85250	05	32	17.79	+28	34	09.0			A05
PMA004	*	C2008	02	02.80735	05	31	58.21	+28	06	35.6	20.6	R	A05
PMA004		C2008	02	02.84242	05	31	58.18	+28	06	24.6			A05
PMA004		C2008	02	02.87515	05	31	58.18	+28	06	13.9			A05
PMA004		C2008	02	02.90488	05	31	58.16	+28	06	04.2			A05
PMA005	*	C2008	01	28.80416	05	35	59.35	+28	33	10.3	20.5	R	A05
PMA005		C2008	01	28.83232	05	35	58.75	+28	33	12.7			A05
PMA005		C2008	01	28.85874	05	35	58.19	+28	33	15.8			A05
PMA005		C2008	02	02.85204	05	34	45.76	+28	40	29.3	20.7	R	A05
PMA005		C2008	02	02.91072	05	34	45.10	+28	40	33.9			A05
PMA006	*	C2008	01	28.80416	05	34	30.58	+28	33	11.8	20.2	R	A05
PMA006		C2008	01	28.83232	05	34	29.94	+28	33	12.2			A05
PMA006		C2008	01	28.85874	05	34	29.33	+28	33	13.0			A05
PMA006		C2008	02	02.88916	05	33	07.46	+28	34	03.4	20.4	R	A05
PMA006		C2008	02	02.91591	05	33	07.11	+28	34	03.4			A05

5 – Le MPC donne un numéro provisoire chronologique.

6 – Le MPC raccorde l'orbite calculée avec

- éventuellement un astéroïde trouvé précédemment
- une redécouverte ultérieure de cet astéroïde

En théorie, lorsque plusieurs observations concernent le même astéroïde, la découverte est attribuée au premier observateur qui a réalisé au moins une paire de nuits de mesures.

Minor Planet Ephemeris Service: Query Results

Below are the results of your request from the Minor Planet Center's Minor Planet Ephemeris Service. Ephemerides are for observatory code A05.

(336373) 2008 UG47 = 2007 RR282

[Display all designations for this object](#) / # of variant orbits available = 3

Perturbed ephemeris below is based on 11-opp elements from *MPO* 648781. Last observed on 2021 Aug. 31.

Discovery date : 2008 10 20

Discovery site : Kitt Peak

Discoverer(s) : Spacewatch

X6373	[H=16.75]												Uncertainty info		
Date	UT	R.A. (J2000)	Decl.	Delta	r	El.	Ph.	V	Sky Motion "/min	P.A.	Object Azi. Alt.	Sun Alt.	Moon Phase Dist. Alt.	3-sig/"	P.A.
2022 05 14	000000	01 33 12.0	+14 24 07	3.481	2.614	26.4	9.9	22.2	1.08	069.9	213 -26	-28	0.94 172 +32	N/A	N/A / Map / Offsets

7 – Après des mesures astrométriques sur plusieurs oppositions, l'orbite peut être calculée avec précision. Le MPC donne alors un numéro définitif à l'astéroïde, et le découvreur a le droit de lui proposer un nom de baptême au WGSBN (Working Group Small Body Nomenclature).

Minor Planet Ephemeris Service: Query Results

Below are the results of your request from the Minor Planet Center's Minor Planet Ephemeris Service. Ephemerides are for observatory code A05.

(597993) Belestia

[Display all designations for this object](#) / [Show naming citation](#)

Perturbed ephemeris below is based on 6-opp elements from *MPO* 685927. Last observed on 2022 Feb. 24.

Discovery date : 2008 01 28 (*)
 Discovery site : Belestia
 Discoverer(s) : P. Martinez

x7993		[H=16.92]															
Date	UT	R.A. (J2000)	Decl.	Delta	r	El.	Ph.	V	Sky Motion		Object		Sun	Moon			
h m s												Azi.	Alt.	Alt.	Phase	Dist.	Alt.
2022	05 14 000000	10 05 20.2	+03 24 56	2.378	2.727	99.2	21.5	22.0	0.43	104.6	087	+08	-28	0.94	052	+32	

(576901) Adagio = 2008 BA24

[Display all designations for this object](#) / [Show naming citation](#)

Perturbed ephemeris below is based on 9-opp elements from *MPO* 649582. Last observed on 2021 Sept. 8.

Discovery date : 2008 01 28 (*)
 Discovery site : Belestia
 Discoverer(s) : P. Martinez

v6901		[H=16.04]															
Date	UT	R.A. (J2000)	Decl.	Delta	r	El.	Ph.	V	Sky Motion		Object		Sun	Moon			
h m s												Azi.	Alt.	Alt.	Phase	Dist.	Alt.
2022	05 14 000000	02 03 08.3	+04 10 40	3.707	2.814	24.0	8.4	21.7	1.01	068.8	209	-38	-28	0.94	172	+32	



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(576901) Adagio = 2012 WM₂₇

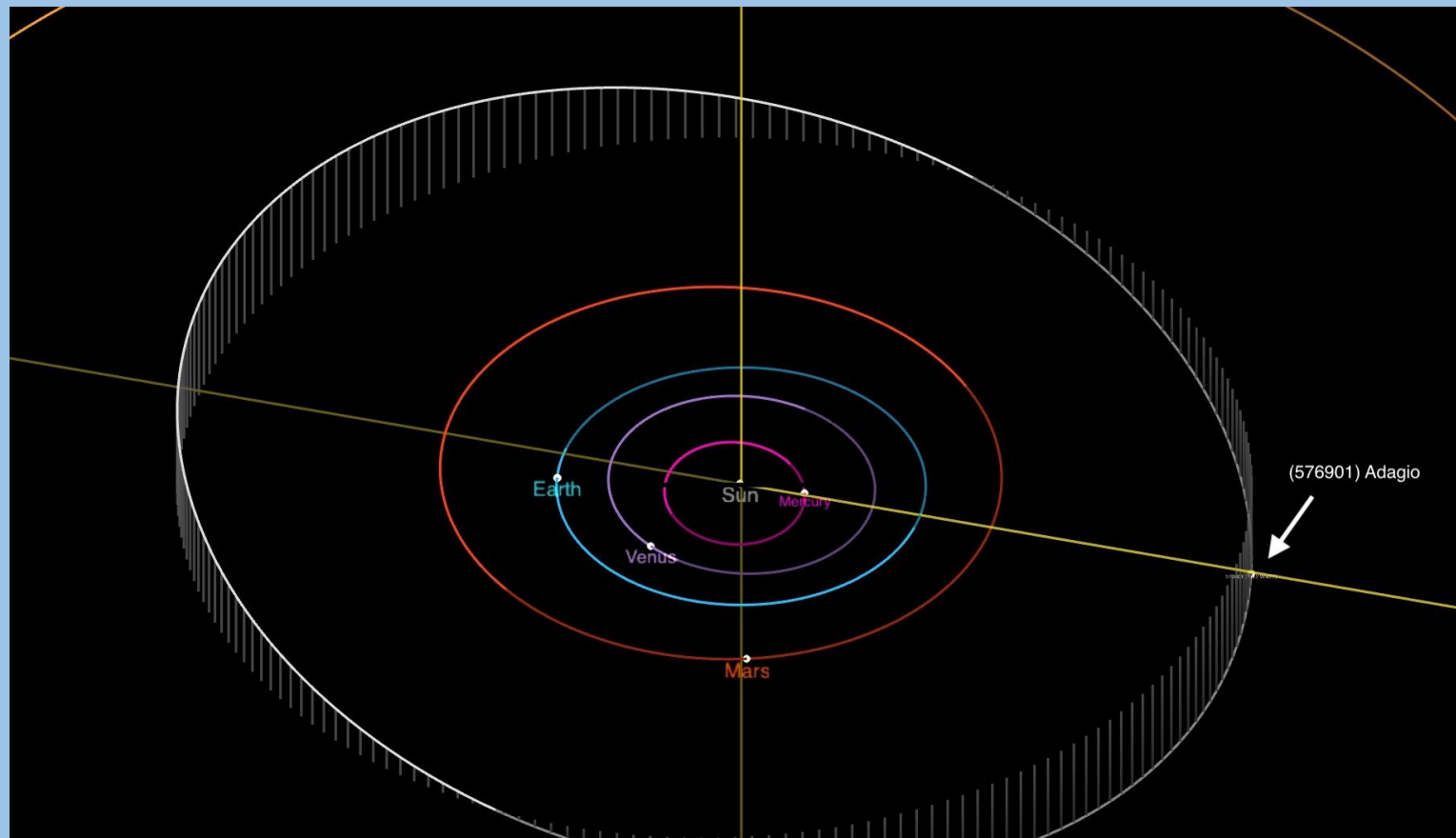
*Discovery: 2008-01-28 / P. Martinez * / Belesta / A05*

The Association pour le Développement Amateur d'un Grand Instrument d'Observation (ADAGIO) is a non-profit astronomical society which operates the 0.82-m telescope used for the discovery of (576901).

(597993) Bélesta = 2008 BZ₂₃

*Discovery: 2008-01-28 / P. Martinez * / Belesta / A05*

Bélesta-en-Lauragais is a small village in south-west France. The village is the site of the observatory where (597993) was discovered. Bélesta is also the name of the observatory.



(576901) Adagio

[Display all designations for this object](#) / [Show naming citation](#)

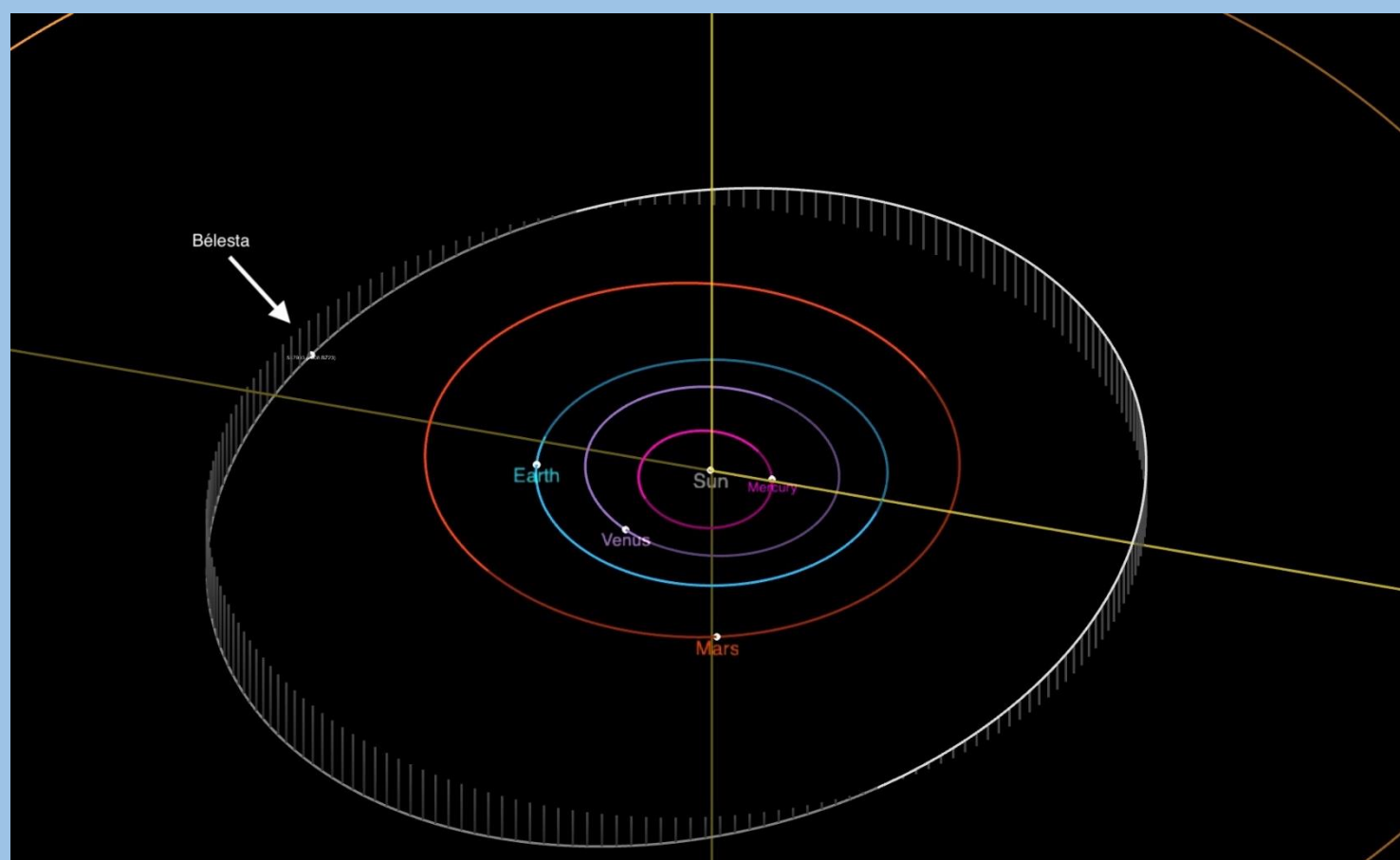
Perturbed ephemeris below is based on 9-opp elements from *MPO* 649582. Last observed on 2021 Sept. 8.

Discovery date : 2008 01 28 (*)

Discovery site : Belesta

Discoverer(s) : P. Martinez

v6901	[H=16.04]																	
Date	UT	R.A. (J2000)	Decl.	Delta	r	El.	Ph.	V	Sky Motion		Object		Sun	Moon				
	h m s								" / min	P.A.	Azi.	Alt.	Alt.	Phase	Dist.	Alt.		
2022 11 01	000000	04 31 05.3	+15 19 53	1.937	2.835	149.2	10.3	20.4	0.40	275.9	314	+55	-61	0.47	123	-19		
2022 11 11	000000	04 23 37.0	+15 30 01	1.885	2.838	160.6	6.6	20.2	0.52	275.1	332	+60	-63	0.94	014	+64		
2022 11 21	000000	04 14 36.5	+15 41 51	1.859	2.841	171.7	2.9	20.0	0.59	275.3	356	+62	-66	0.11	135	-37		
2022 12 01	000000	04 05 00.6	+15 56 14	1.864	2.844	172.3	2.7	19.9	0.59	276.4	021	+61	-68	0.54	079	-04		
2022 12 11	000000	03 55 54.8	+16 14 15	1.897	2.847	161.2	6.4	20.2	0.53	278.9	042	+57	-69	0.93	050	+60		



(597993) Belesta

[Display all designations for this object](#) / [Show naming citation](#)

Perturbed ephemeris below is based on 6-opp elements from *MPO 685927*. Last observed on 2022 Feb. 24.

Discovery date : 2008 01 28 (*)

Discovery site : Belesta

Discoverer(s) : P. Martinez

x7993		[H=16.92]								Sky Motion		Object		Sun	Moon		
Date	UT	R.A. (J2000)	Decl.	Delta	r	El.	Ph.	V	" / min	P.A.	Azi.	Alt.	Alt.	Phase	Dist.	Alt.	
	h m s																
2022 04 09	000000	09 54 18.6	+03 50 50	1.915	2.672	130.0	16.7	21.4	0.083	303.3	063	+31	-39	0.47	045	+17	
2022 04 19	000000	09 54 38.0	+03 56 43	2.036	2.688	120.4	18.8	21.6	0.091	088.8	072	+24	-36	0.93	089	+22	
2022 04 29	000000	09 57 21.2	+03 52 01	2.167	2.704	111.5	20.3	21.8	0.24	100.3	078	+18	-32	0.04	132	-39	
2022 05 09	000000	10 02 12.5	+03 36 35	2.306	2.720	103.1	21.2	21.9	0.37	103.6	084	+11	-29	0.50	019	+16	
2022 05 19	000000	10 08 52.7	+03 10 47	2.450	2.735	95.3	21.6	22.1	0.48	105.5	090	+05	-27	0.89	123	+11	