



BAA
Variable Star Section
British Astronomical Association

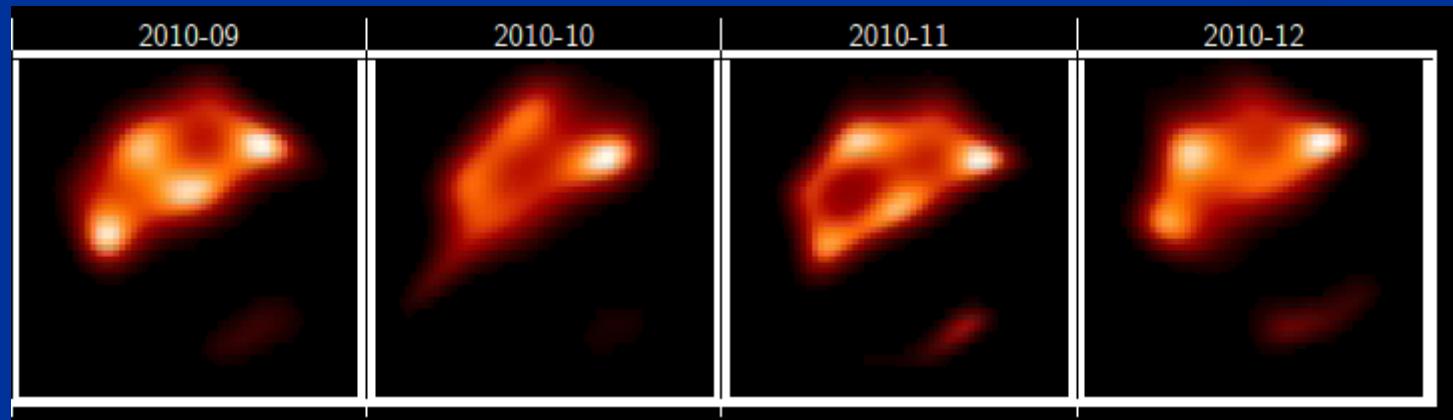
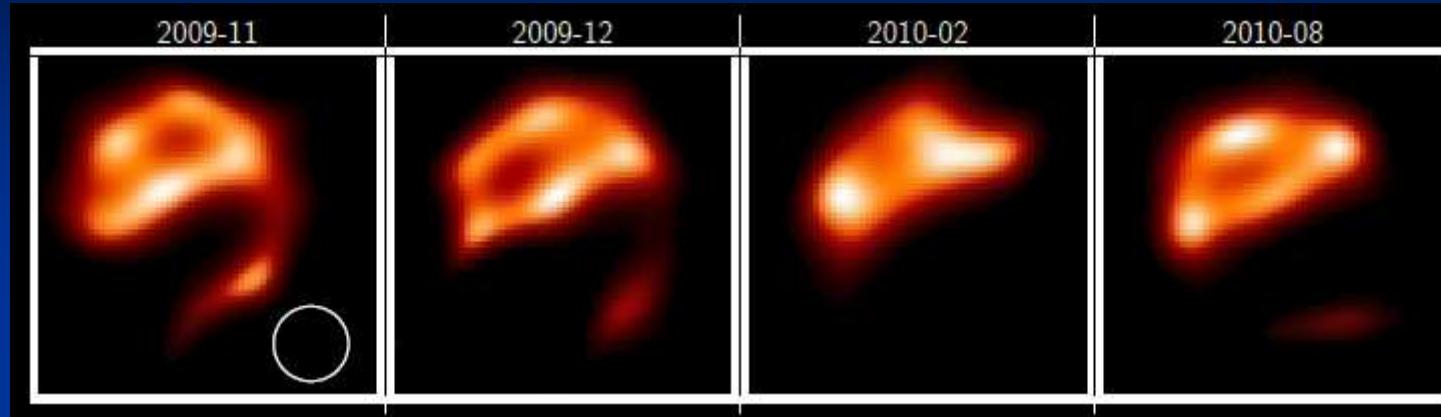
Monton House Hotel
October 2011

Epsilon Aurigae

Spectroscopy
(part II)

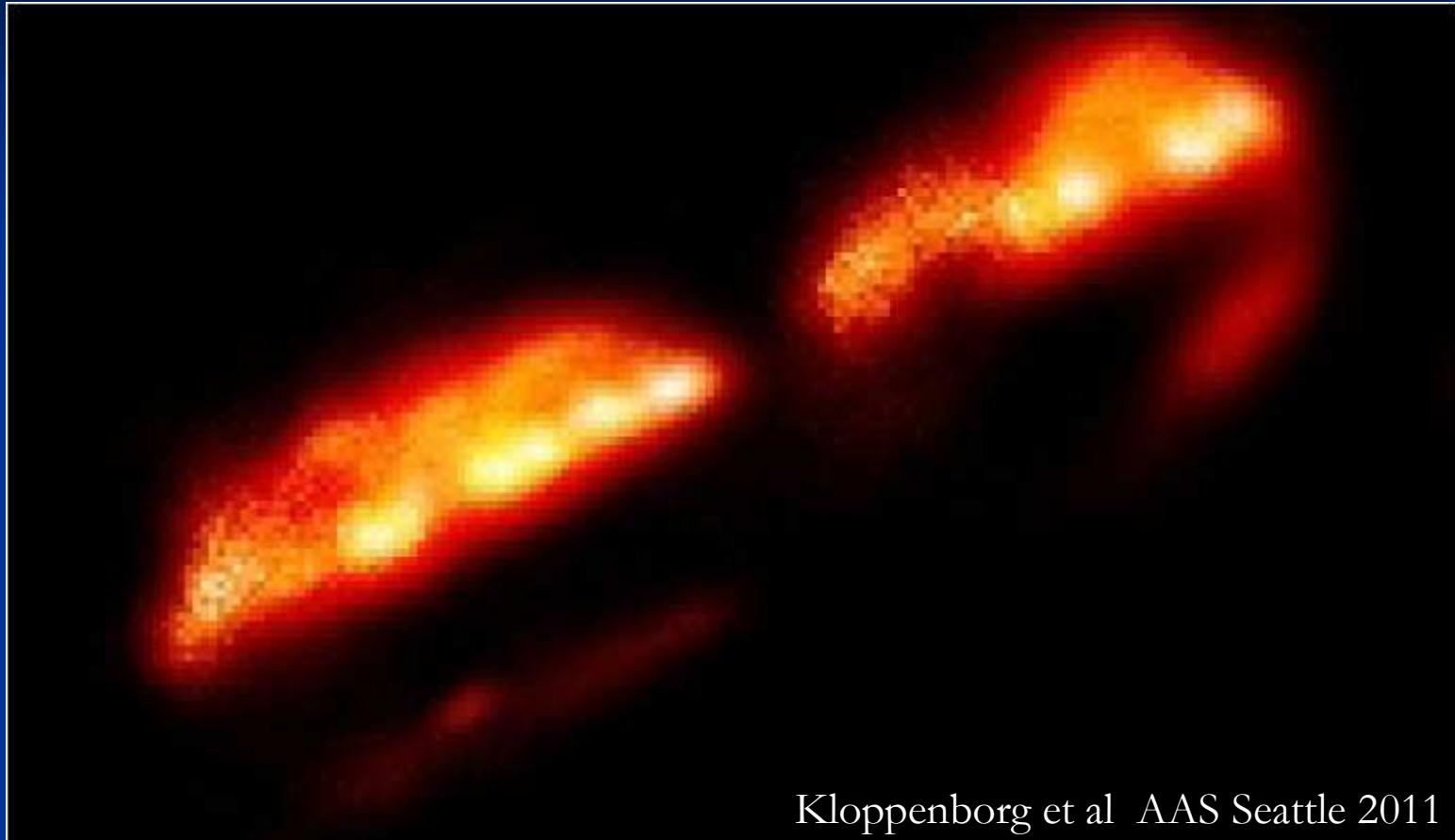
Robin Leadbeater

CHARA interferometry images



Kloppenborg et al AAS Seattle 2011

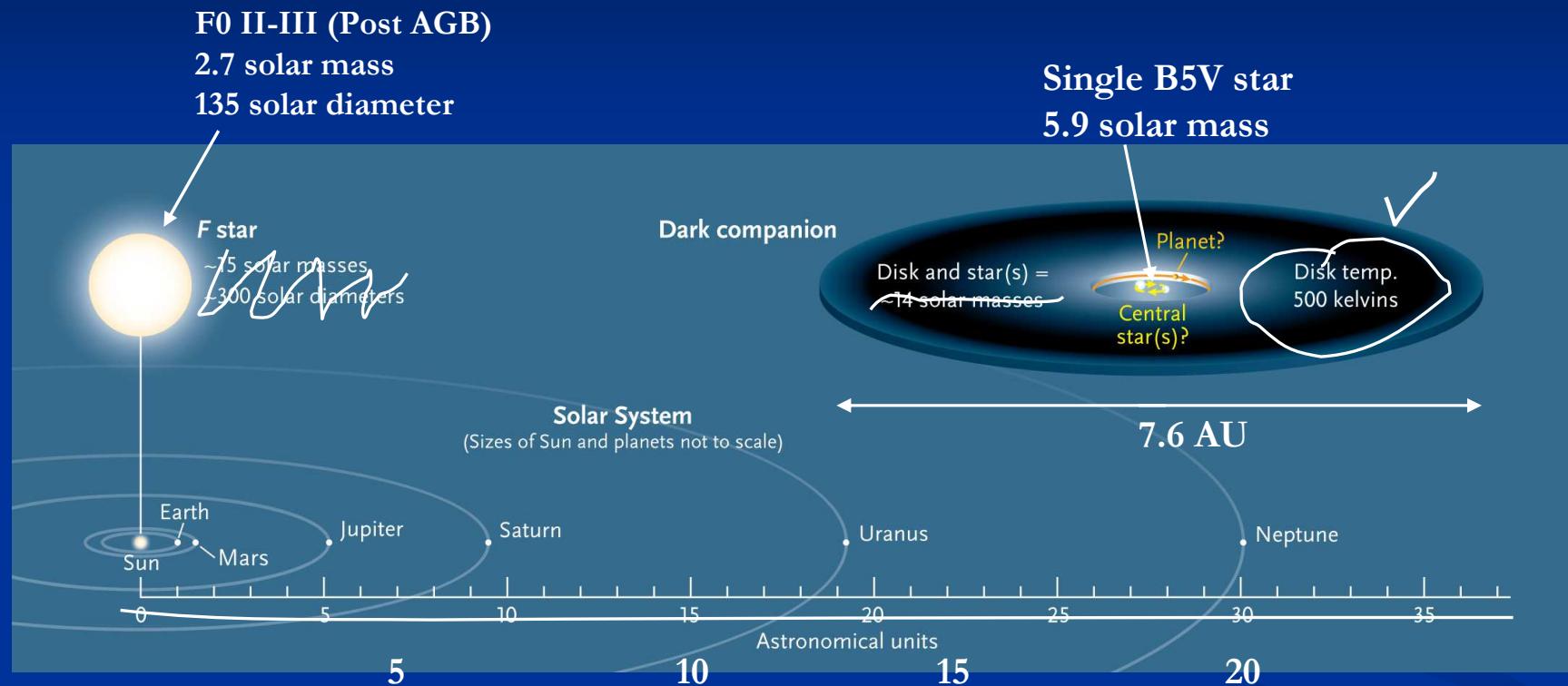
Composite CHARA image



Kloppenborg et al AAS Seattle 2011

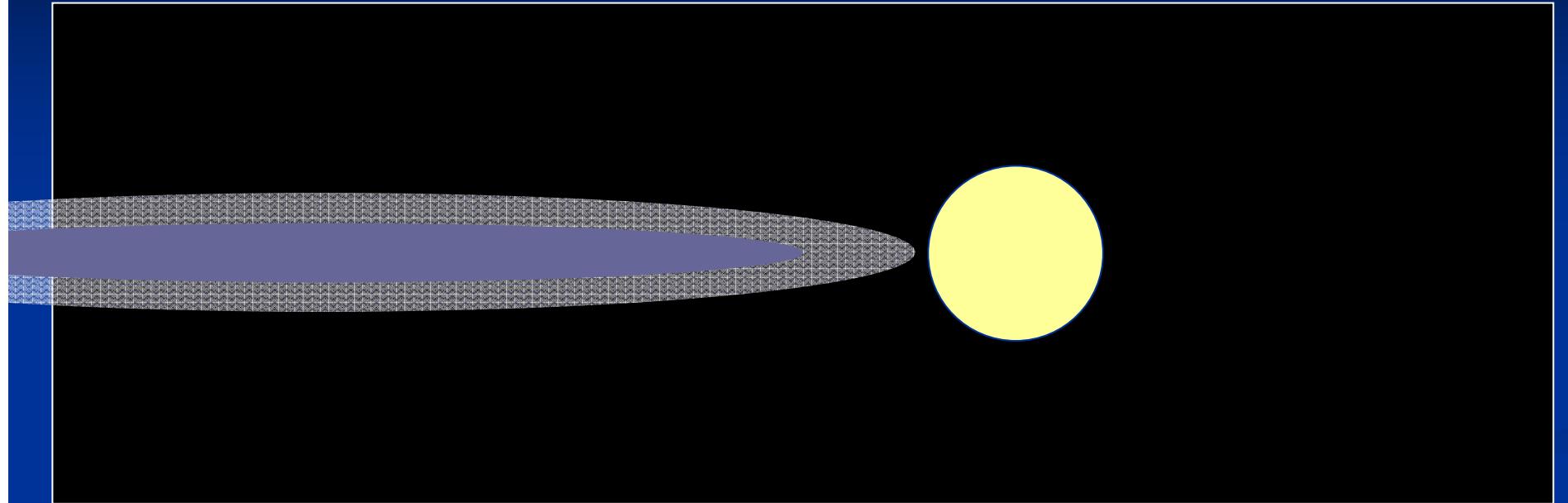
more results covering egress to come....

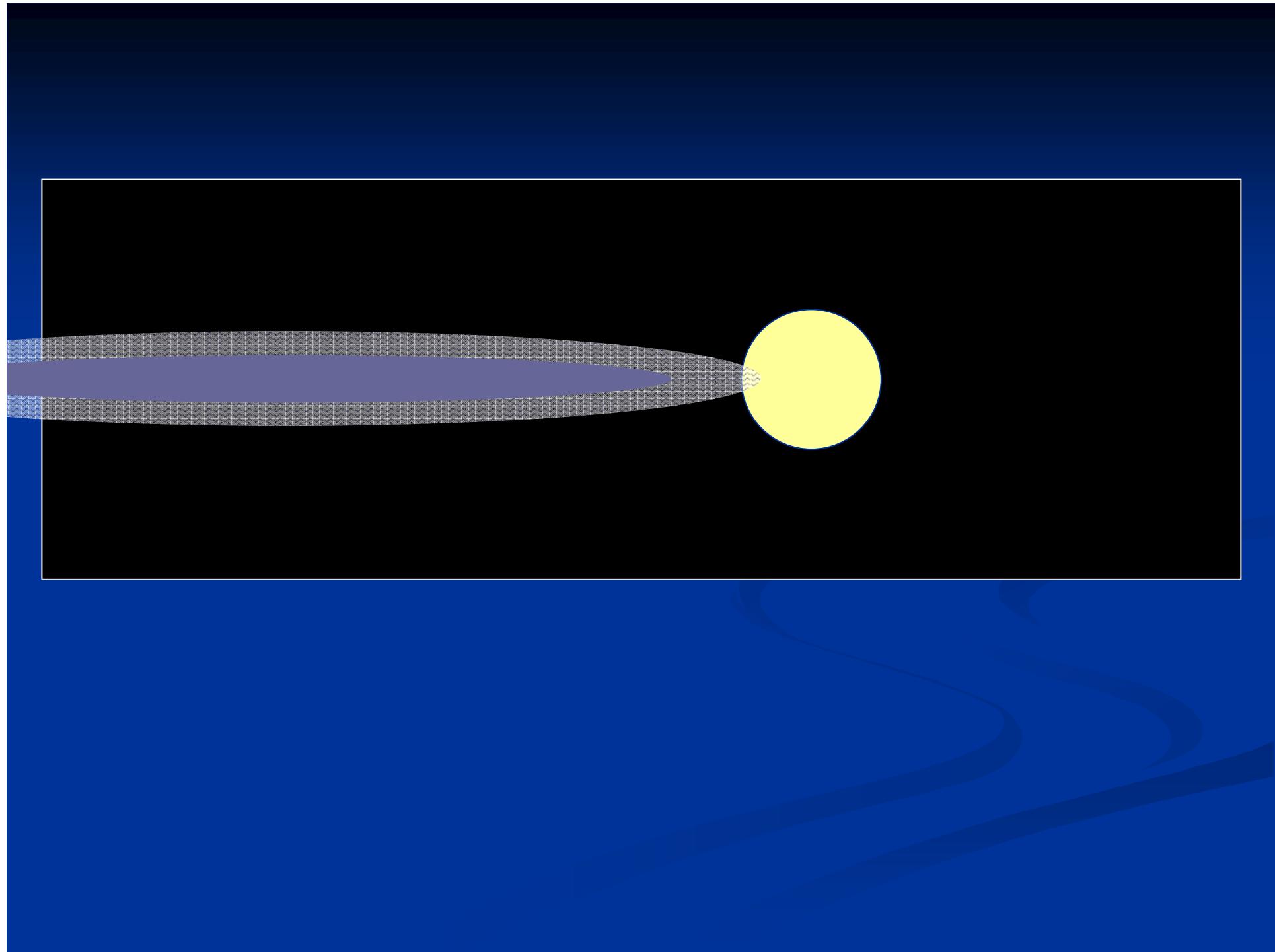
REVISED LOW MASS MODEL

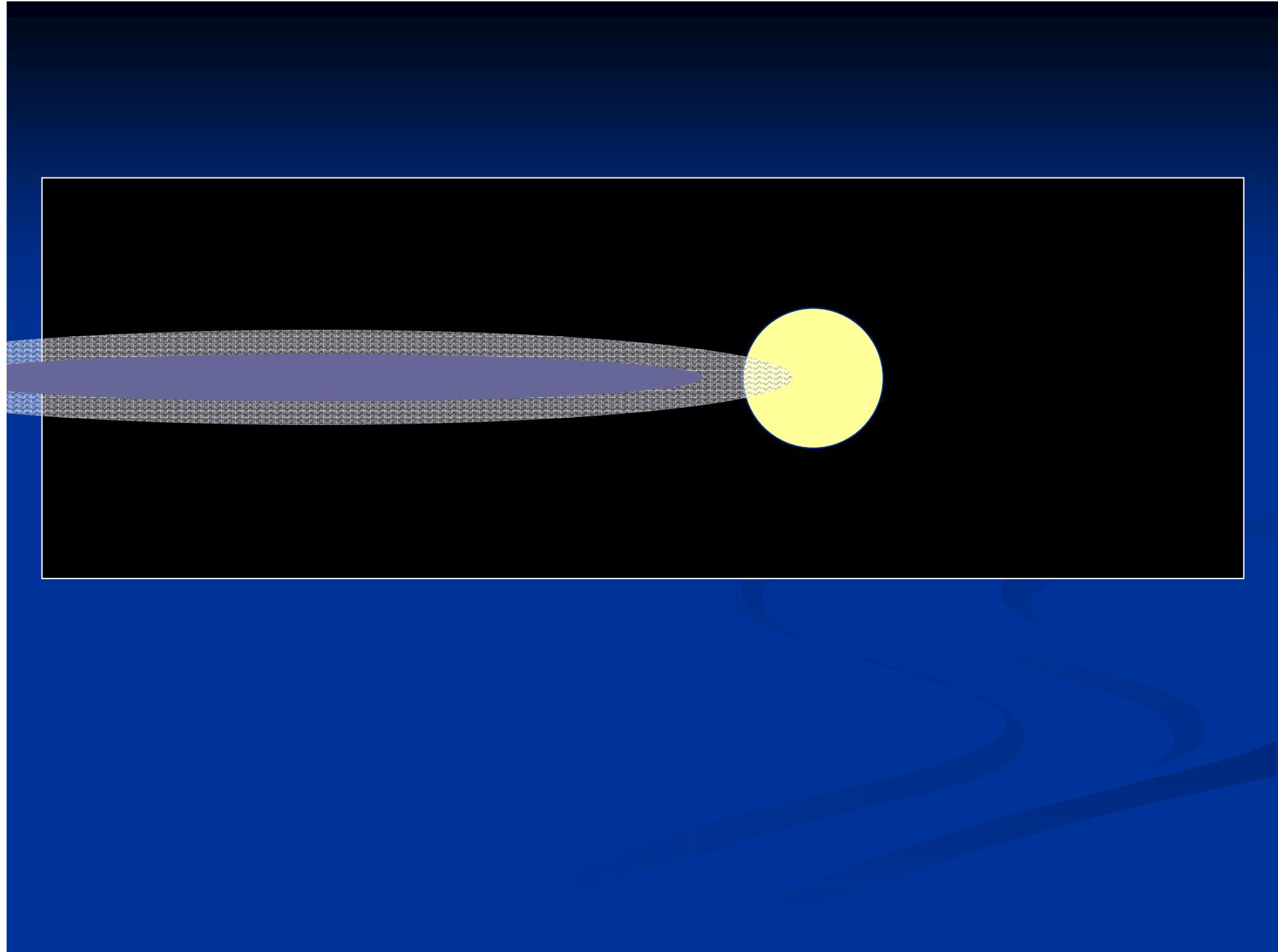


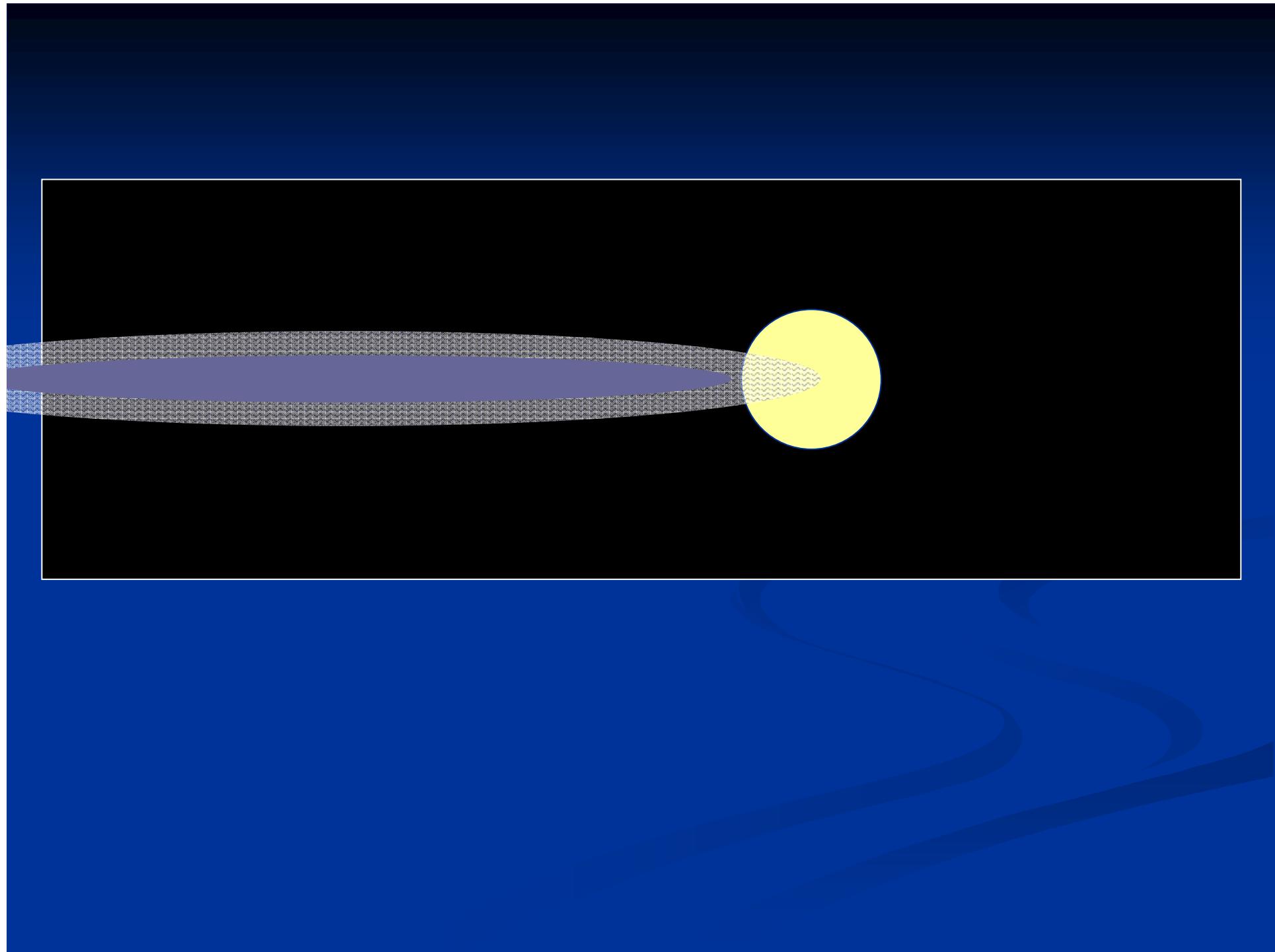
Original graphic Sky & Telescope.
Modified data from Hoard, Howell & Stencel ApJ 2010

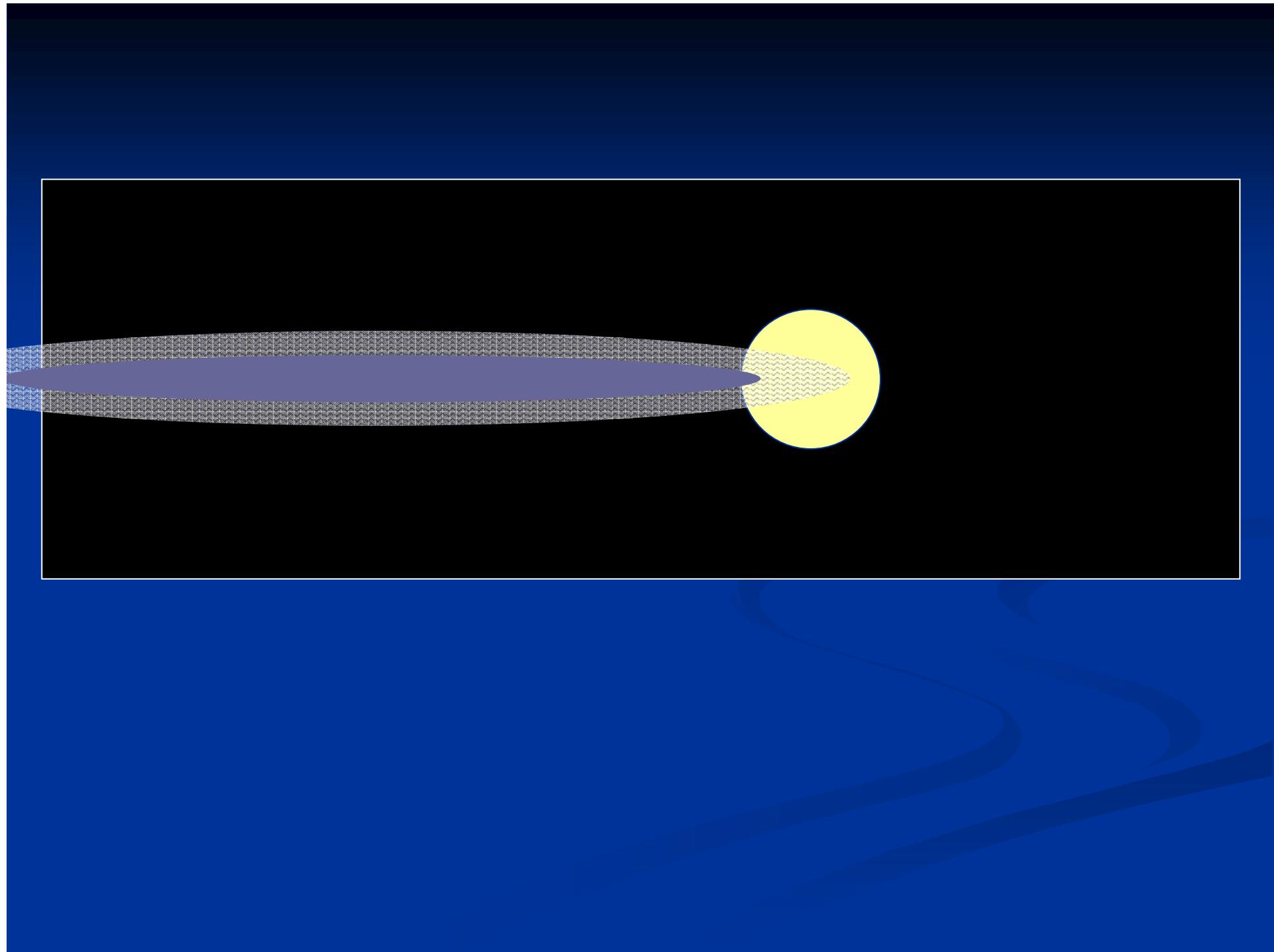
THE SPECTRUM OF THE ECLIPSING OBJECT DURING ECLIPSE

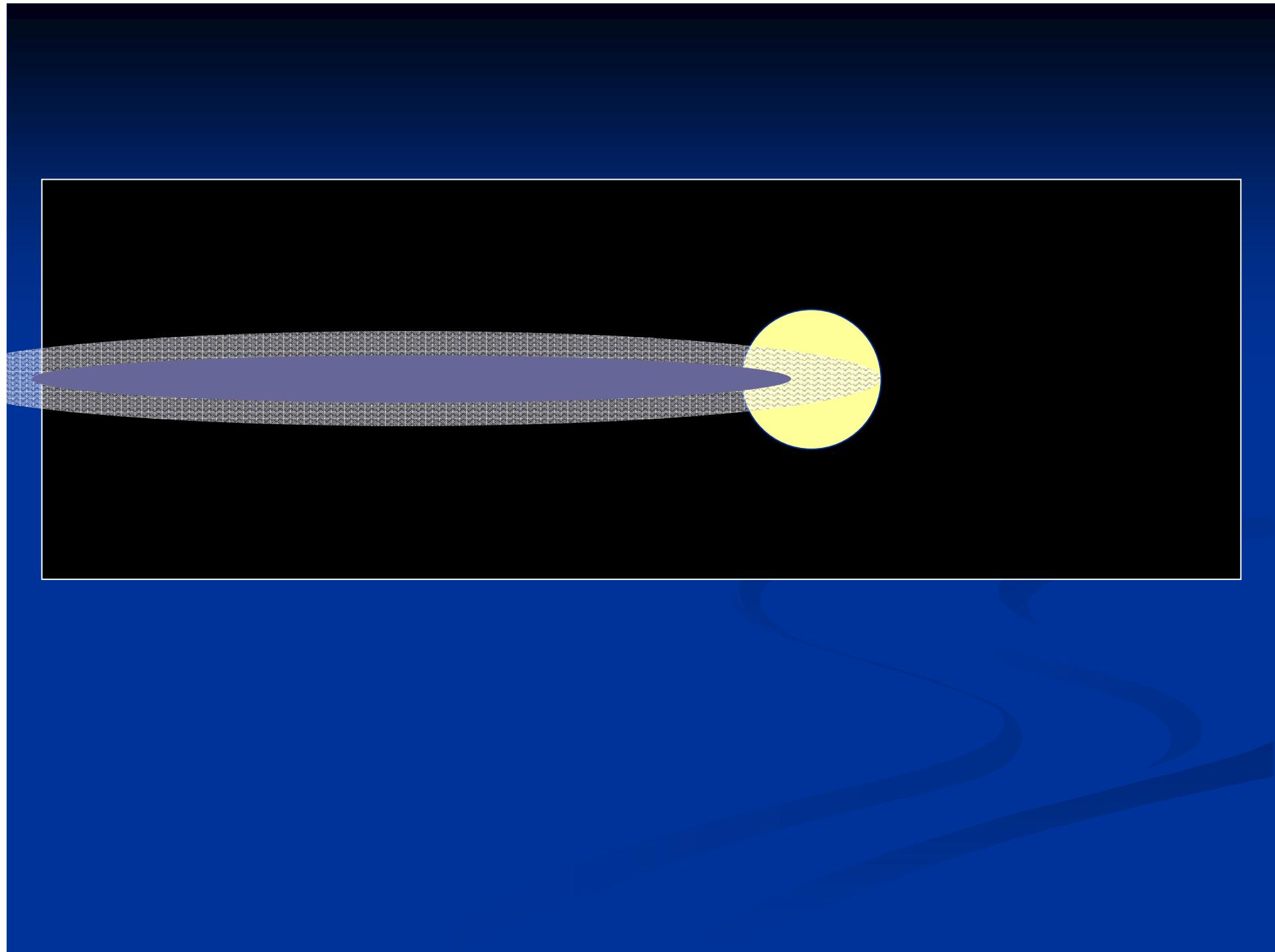


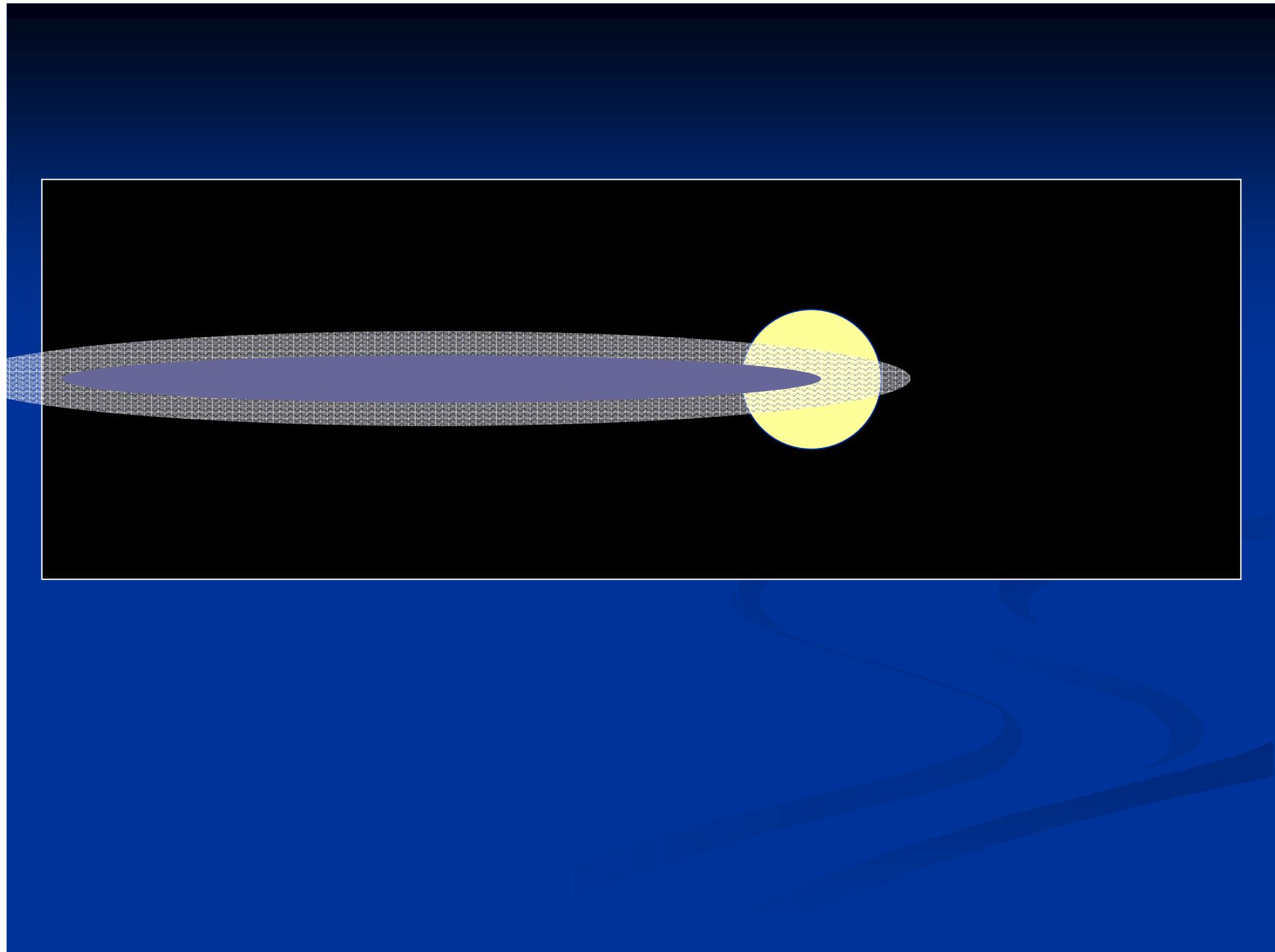


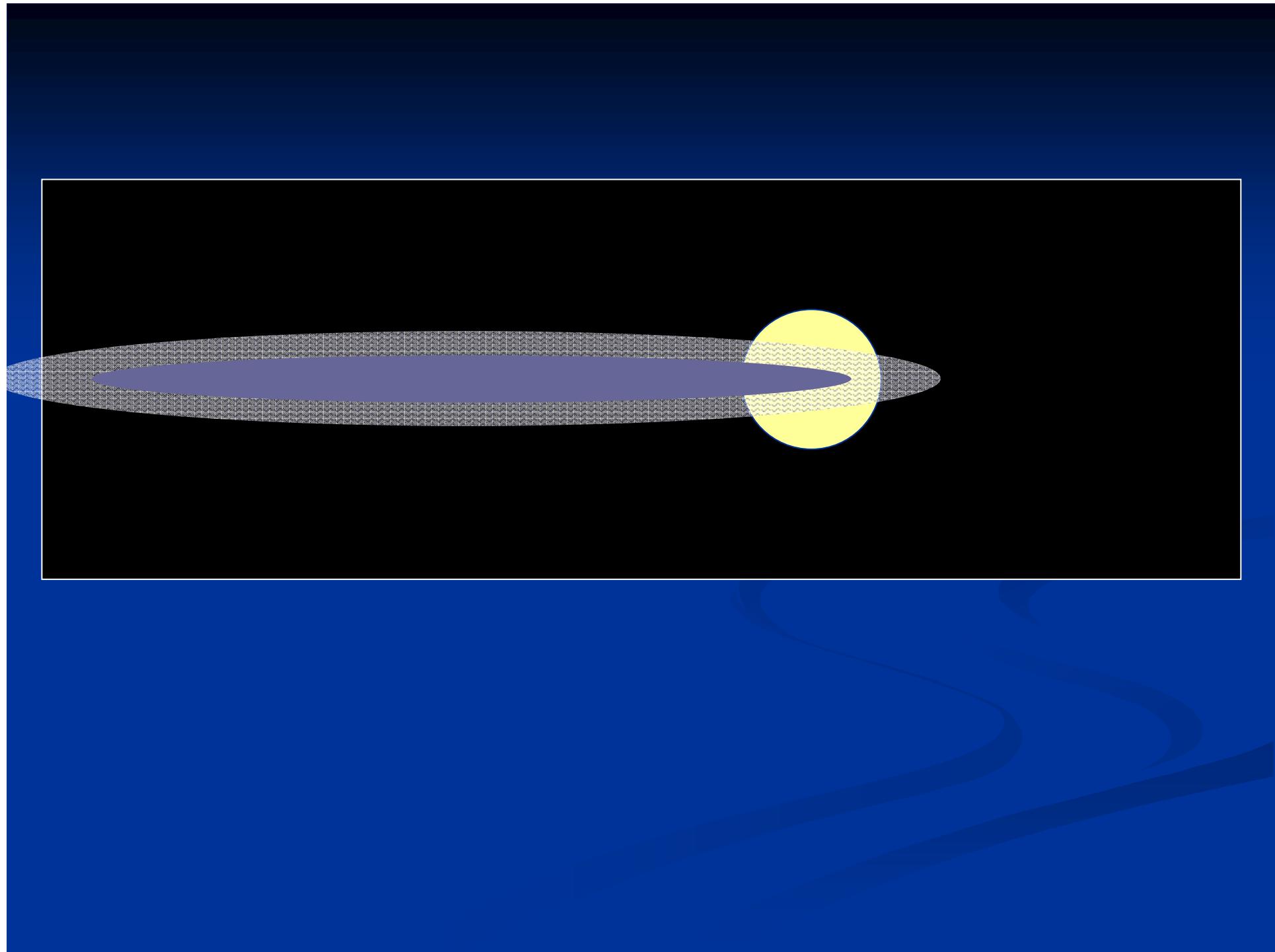


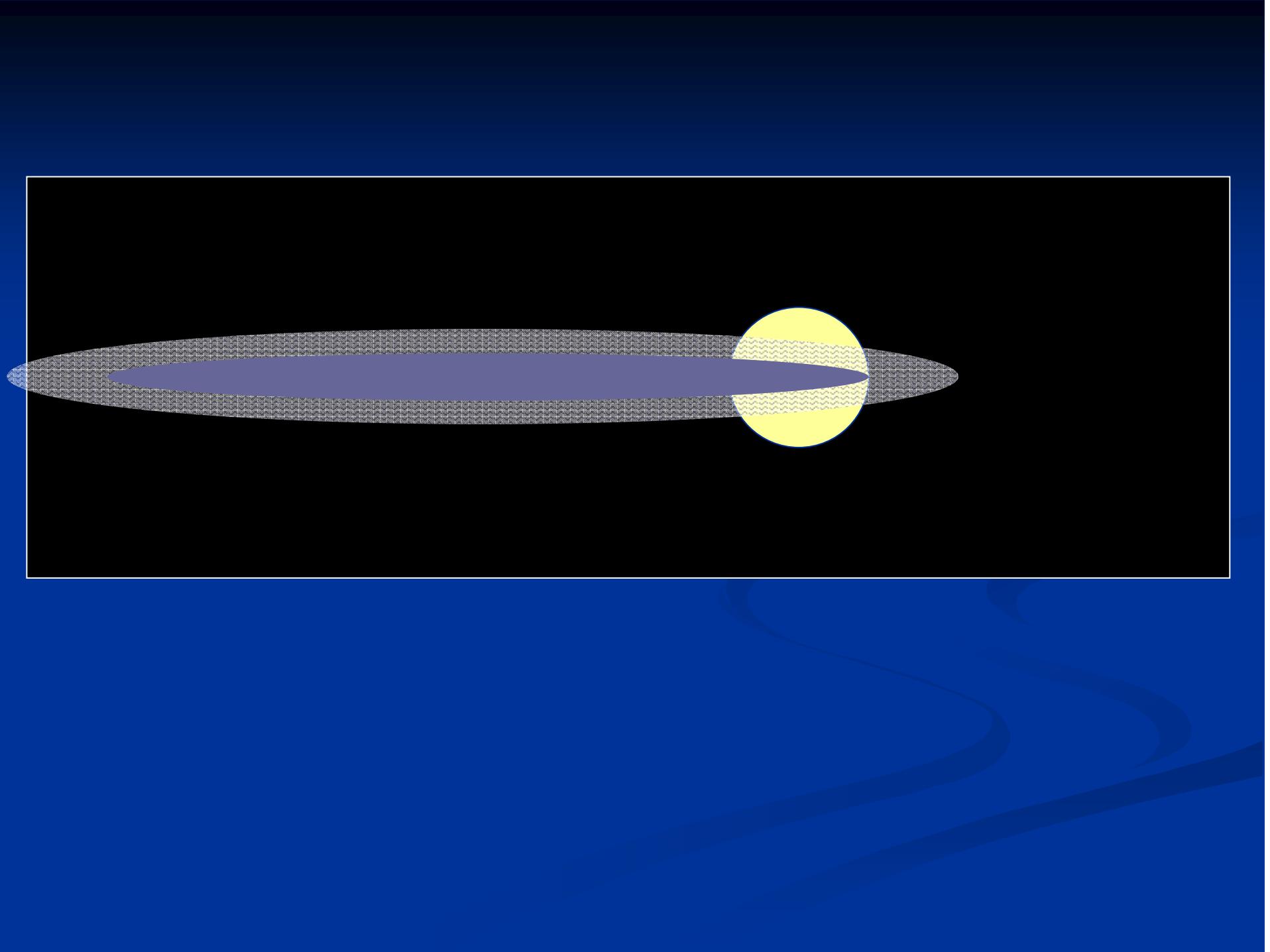


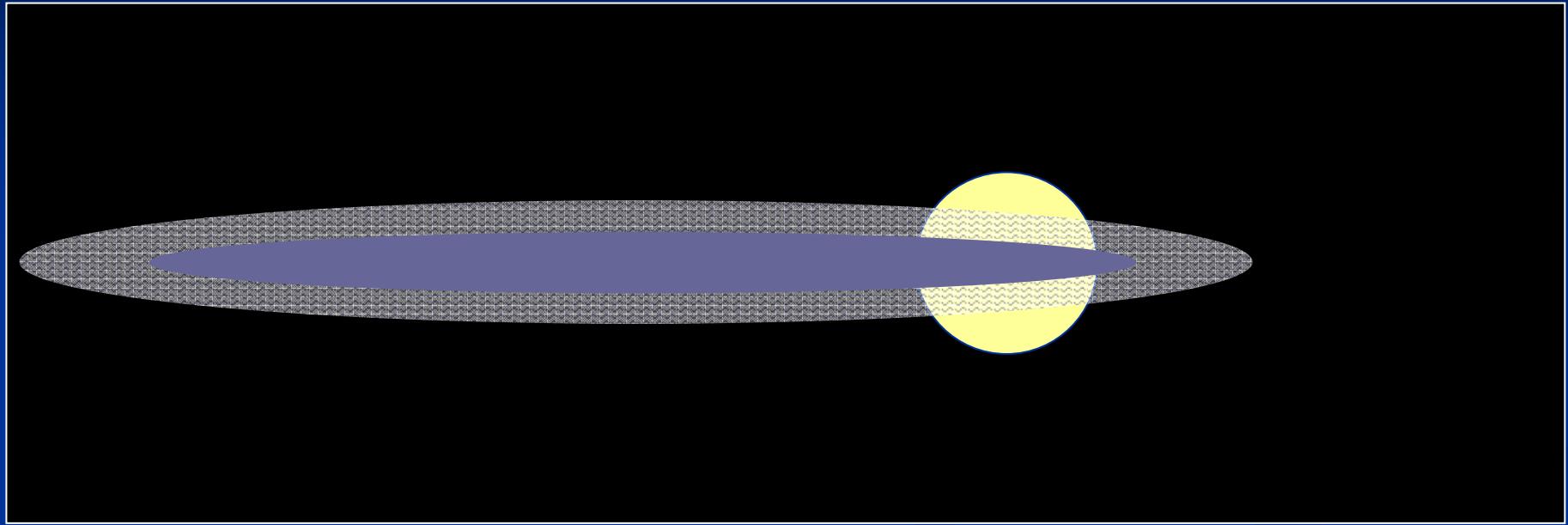


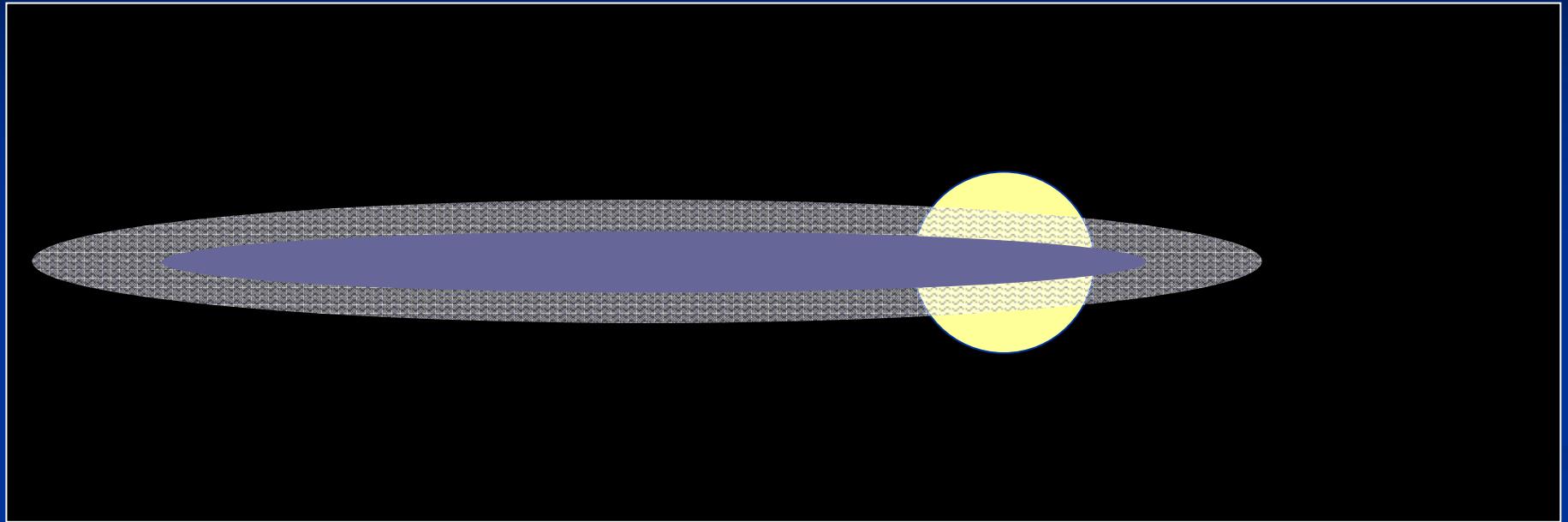




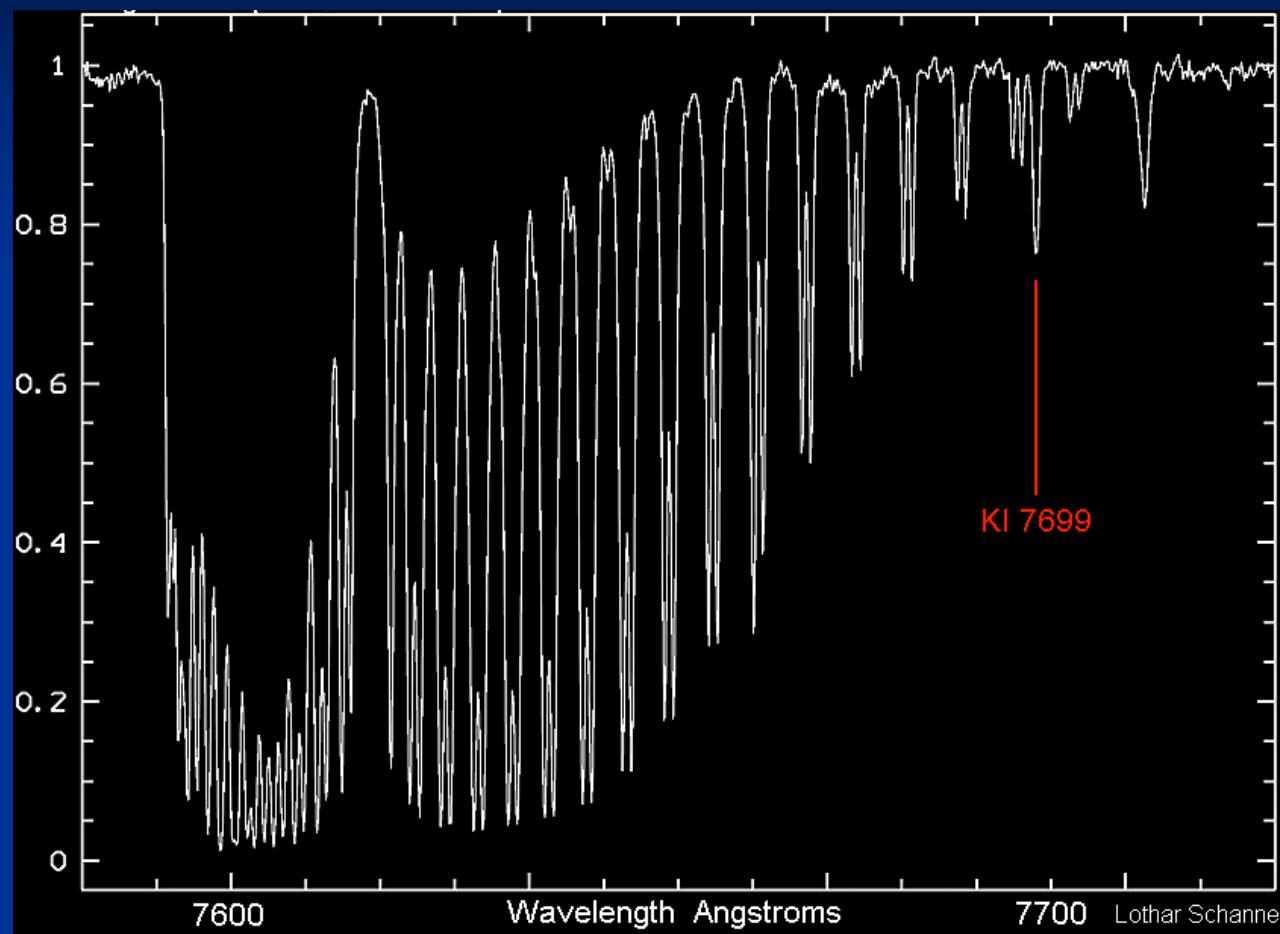




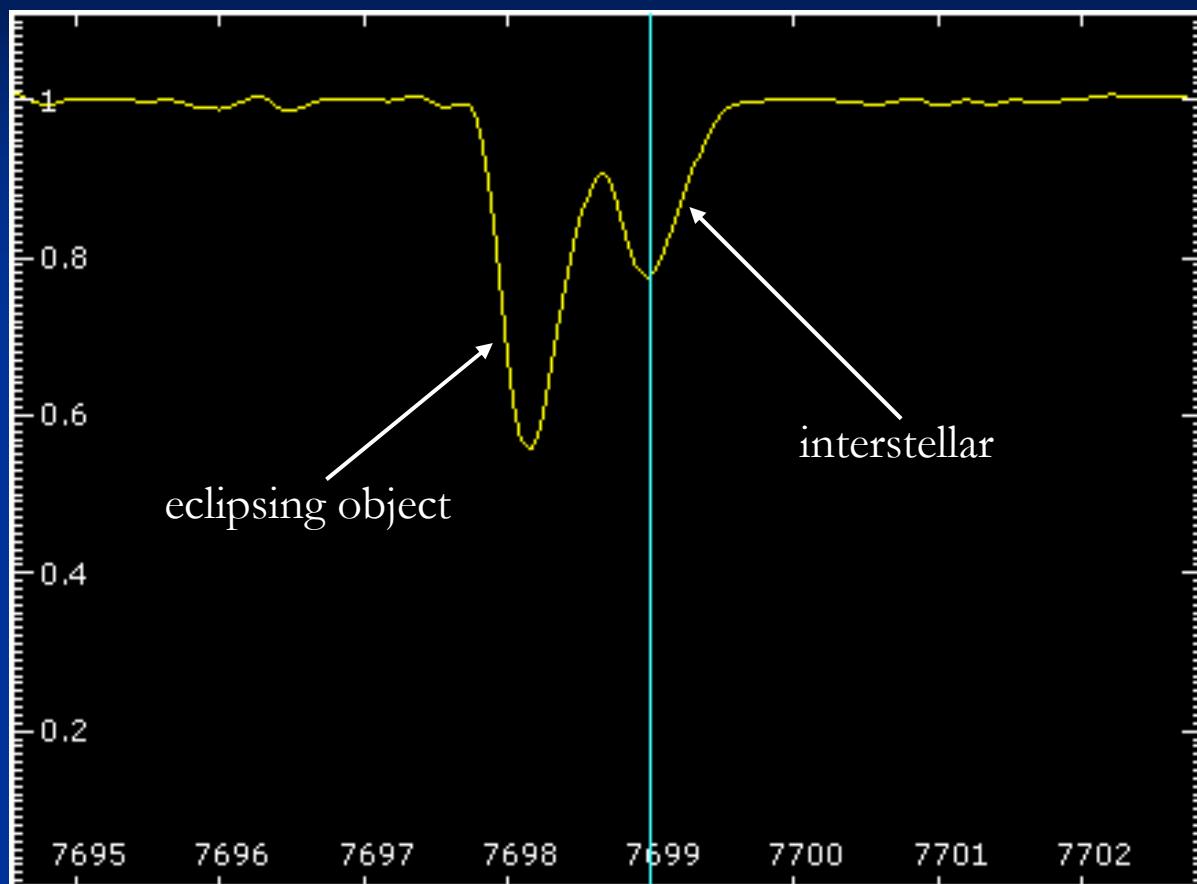




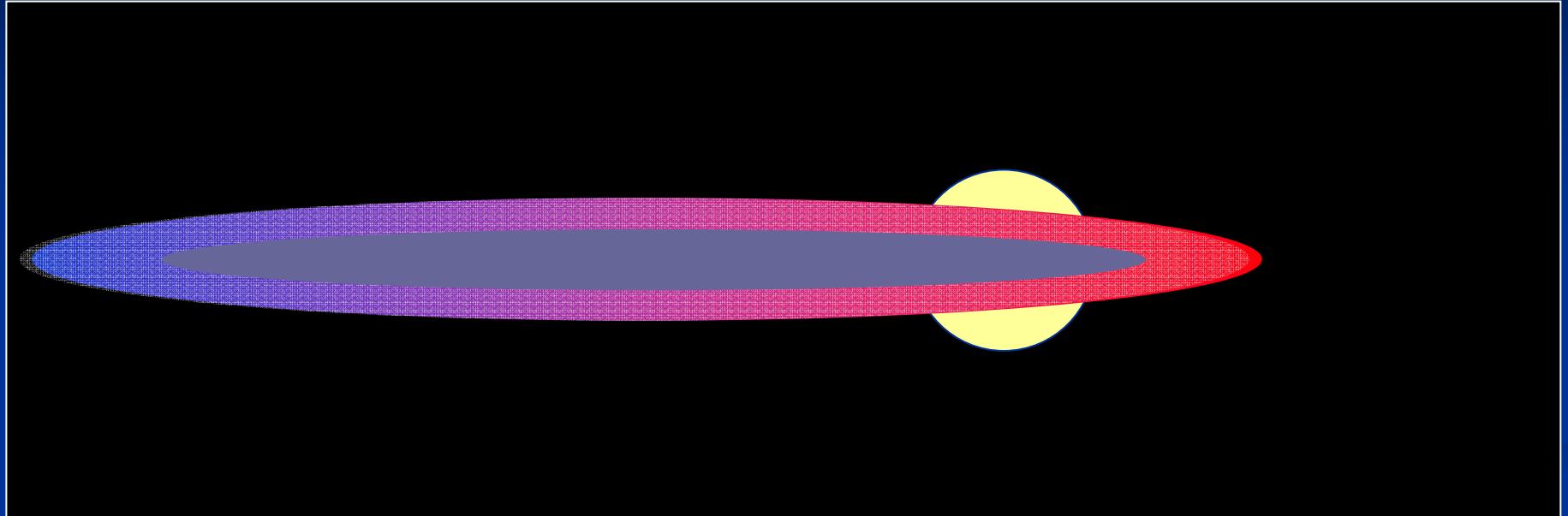
7699A NEUTRAL POTASSIUM LINE LOCATION



7699A NEUTRAL POTASSIUM LINE DETAIL



EFFECT OF ECLIPSING DISC ROTATION



RADIAL VELOCITY OF ECLIPSING OBJECT DURING 1982 ECLIPSE

RED

BLUE

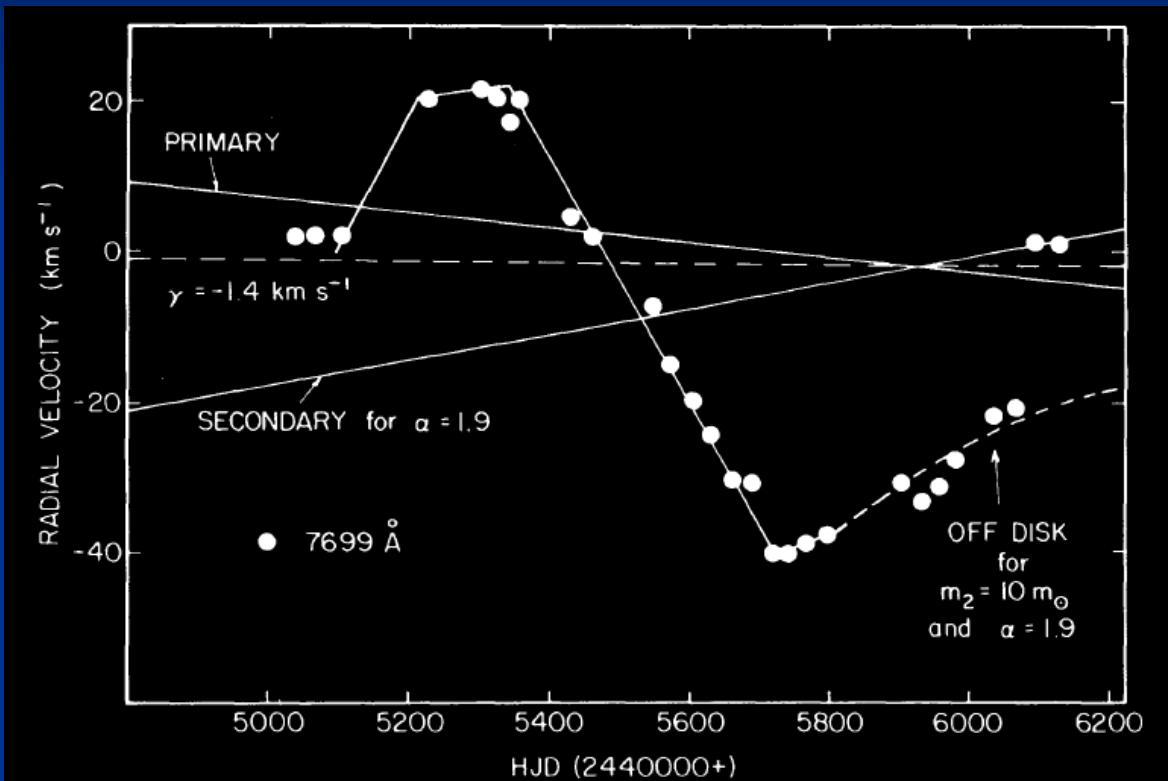


FIG. 6—Radial velocities of the K I resonance line at 7699 Å.

Epsilon Aurigae in eclipse. II - Optical absorption lines from the secondary
Lambert, D. L.; Sawyer, S. R.

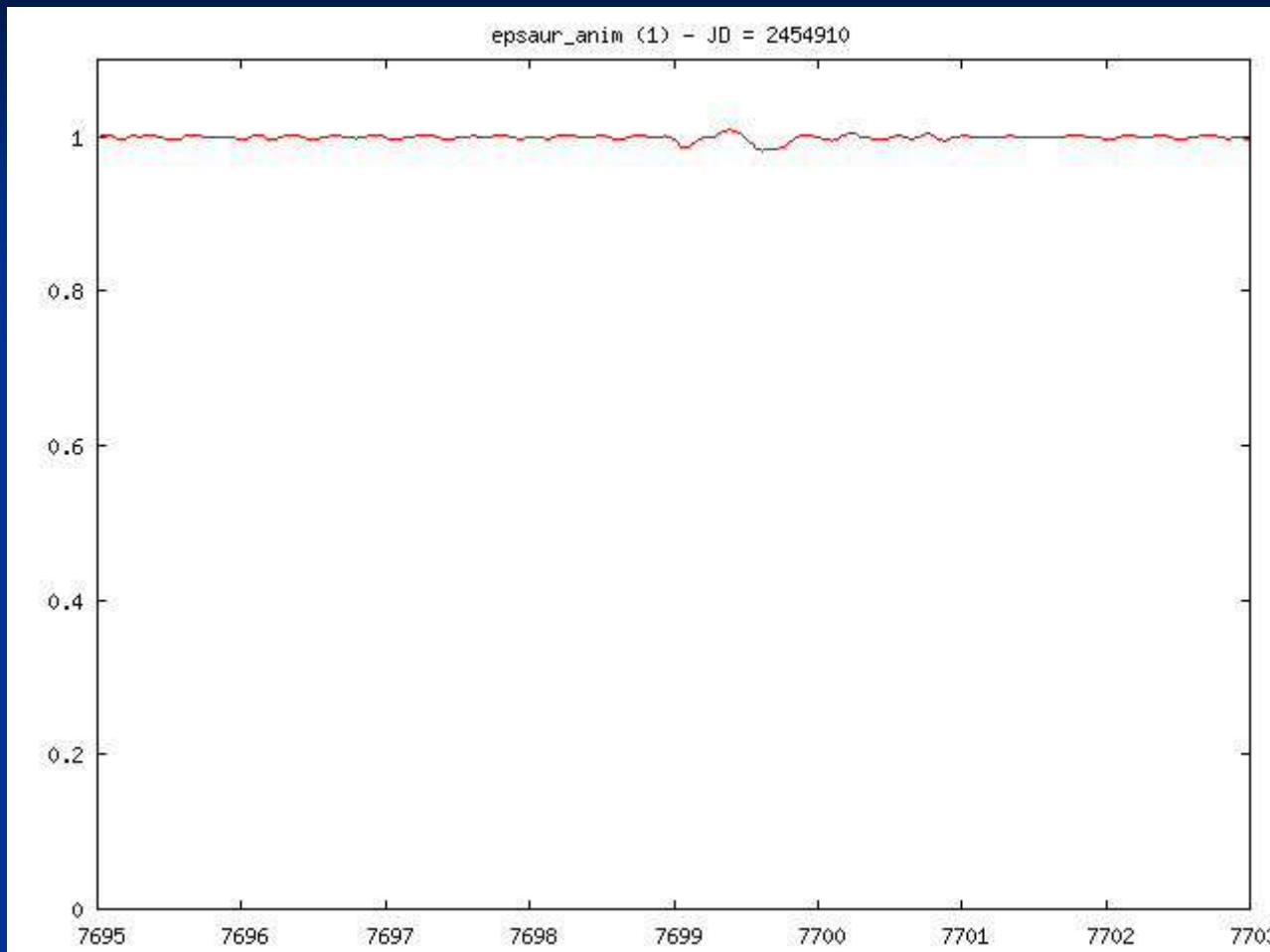
Astronomical Society of the Pacific, Publications vol. 98, April 1986, p. 389-402.

SPECTROGRAPH AT THREE HILLS OBSERVATORY



epsilon Aurigae K I 7699A line evolution

March 2009 – Oct 2011

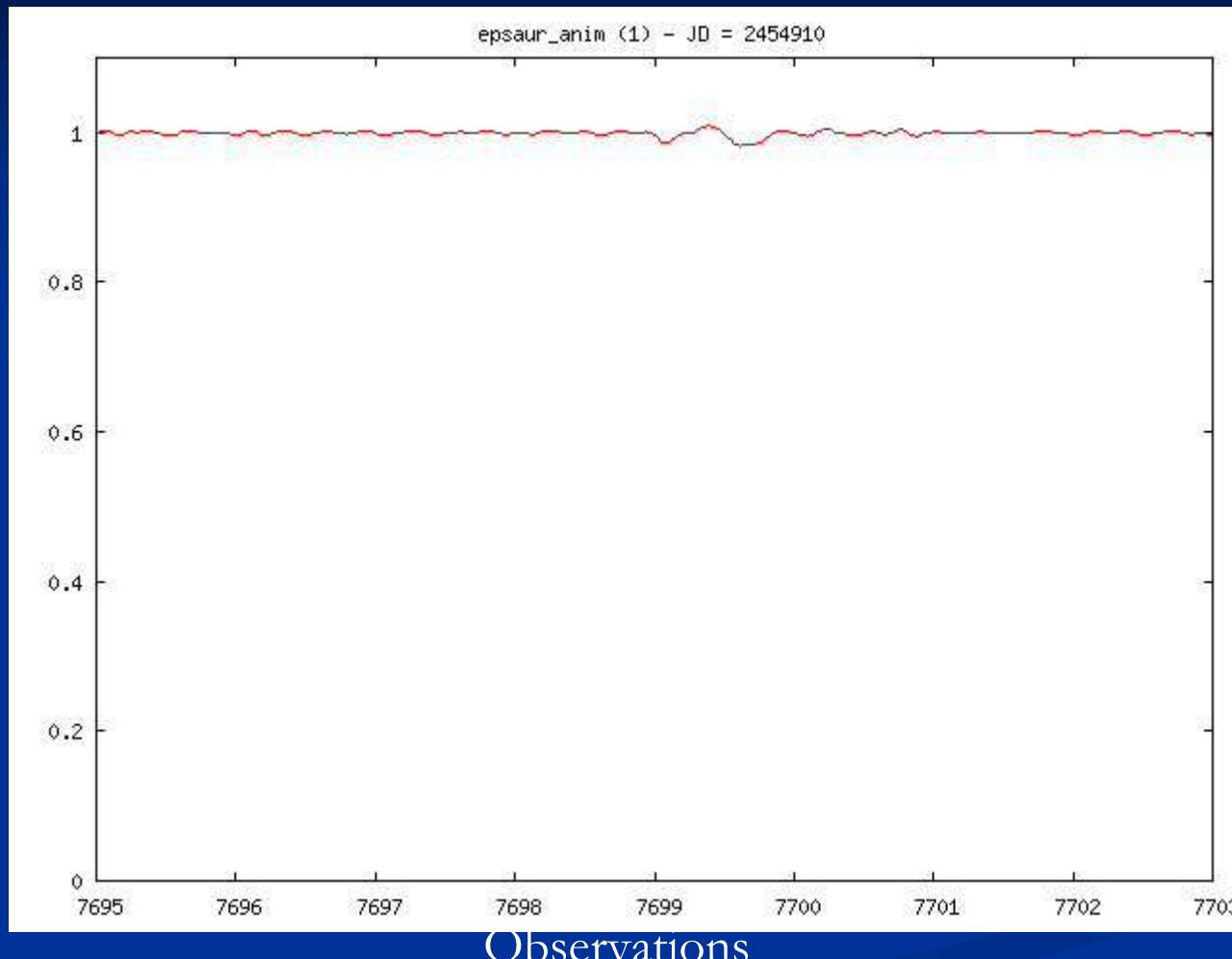


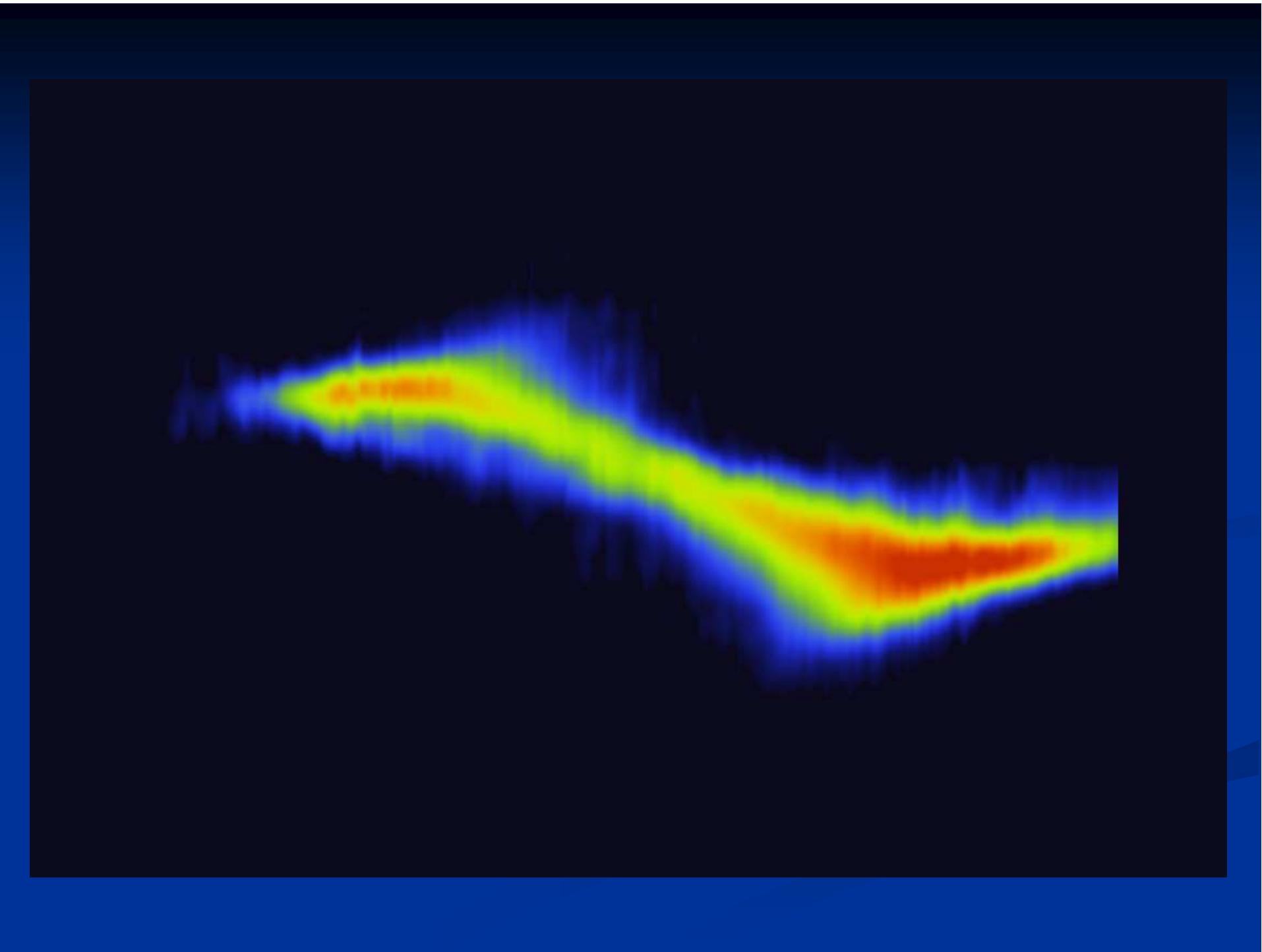
Observations

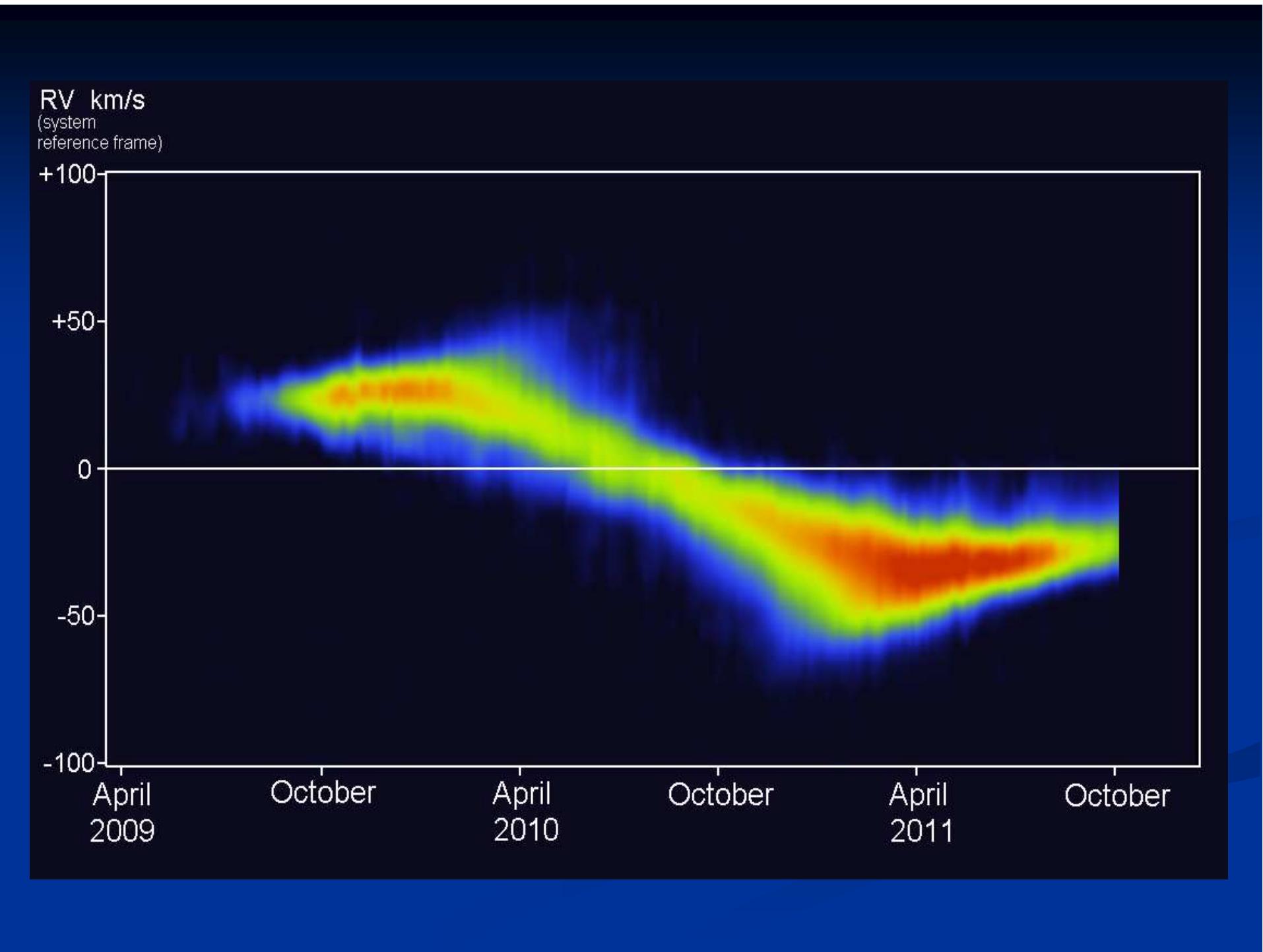
Leadbeater	220
Schanne	15

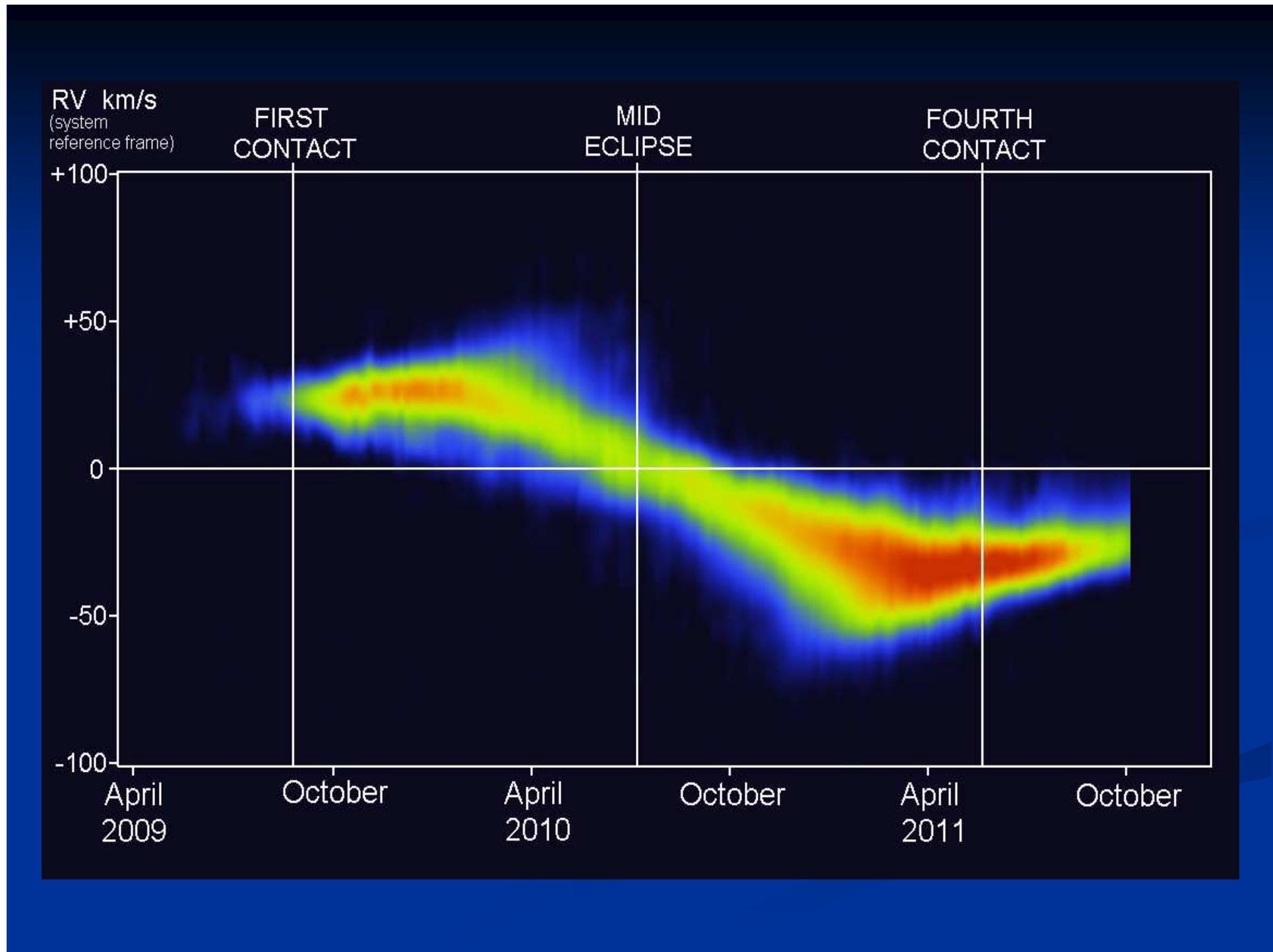
epsilon Aurigae K I 7699A line evolution

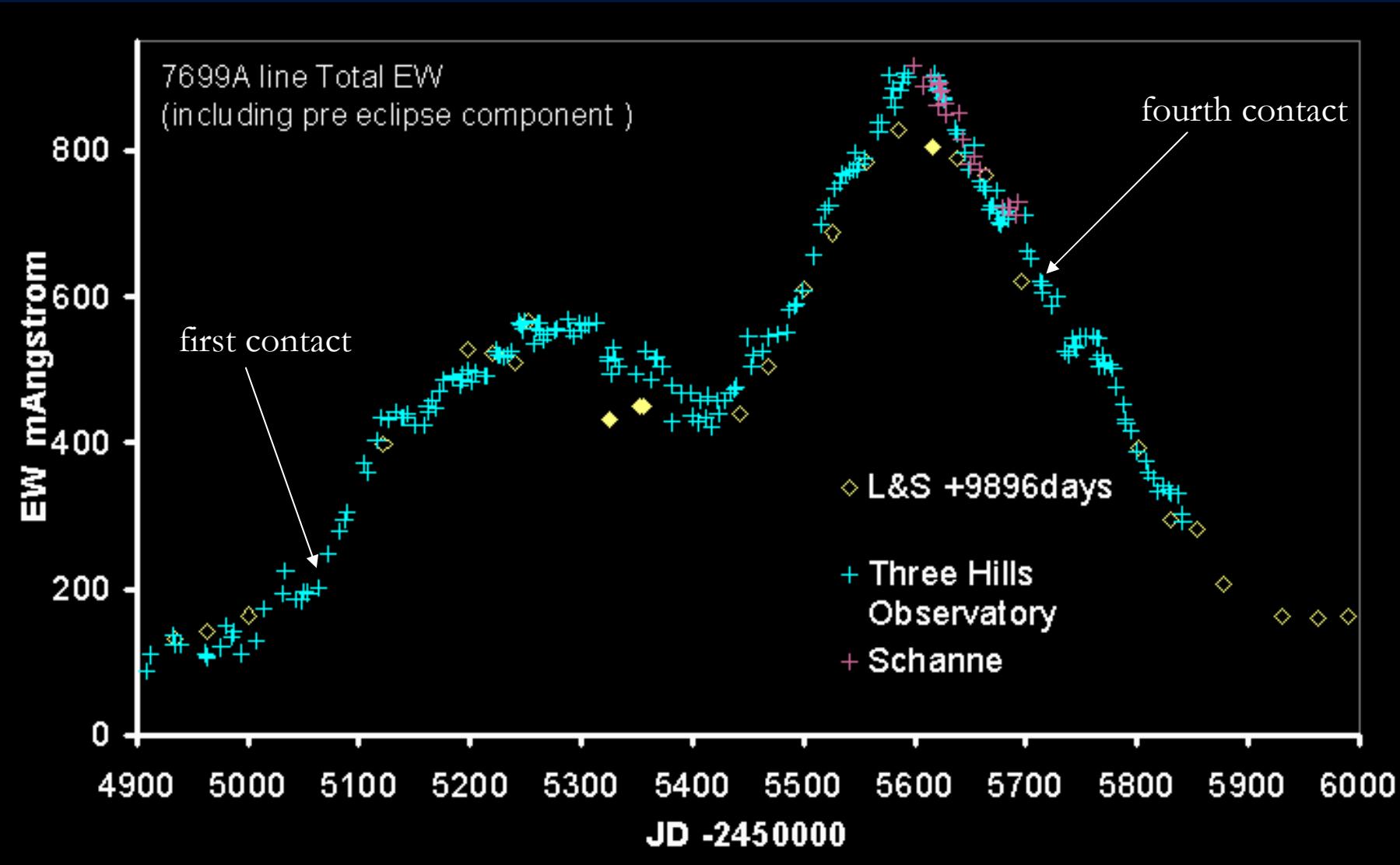
March 2009 – Oct 2011













EPSILON AURIGAE ECLIPSE 2009-2011

TABLE OF SPECTRA TAKEN BY CAMPAIGN MEMBERS

Conditions for use of data in publications

Note there is no validation check prior to adding spectra to this table. Users should verify the quality of the spectra with the observers concerned.

Use of these data in research publications is encouraged subject to the following conditions:

Any publication using these data should include a reference to the International epsilon Aurigae Campaign 2009-11.

The observers concerned should be contacted to confirm the particular acquisition and data reduction procedures used.

Observers contributing a significant amount of data or whose data are pivotal to the findings of the paper should be included as co-authors.

INSTRUCTIONS FOR SUBMITTING DATA



Vereinigung der Sternfreunde
Fachgruppe Spektroskopie

[CLICK TO DOWNLOAD TABLE AS EXCEL FILE](#)



[CLICK FOR WAVELENGTH COVERAGE GRAPH](#)

JD (2400000+)	DATE (UT)	TIME (A)	WAVELENGTH (A)	START (A)	END (A)	RANGE (A)	RESOLUTION (A)	DISPERSION (A/pixel)	S/N	OBSERVER (click for info)	DOWNLOAD (click Y)	DISPLAY (click Y)	OBSERVER'S WEB PAGE (click Y)
55296.418	09-Apr-10	22:02	6500	6750	250					Ribeiro	Y	Y	Y
55295.340	08-Apr-10	20:10	4312	7282	2970			2.14		Teyssier	Y	Y	
55294.357	07-Apr-10	20:34	7674	7723	49	0.3	0.13			Leadbeater			Y
55292.297	05-Apr-10	19:07	6497	6607	110	0.35	0.17			Garrel	Y	Y	
55290.358	03-Apr-10	20:36	7674	7723	49	0.3	0.13			Leadbeater			Y
55288.356	01-Apr-10	20:33	7674	7723	49	0.3	0.13			Leadbeater			Y
55288.289	01-Apr-10	18:56	6497	6607	110	0.35	0.17			Garrel	Y	Y	
55282.319	26-Mar-10	19:39	6497	6607	110	0.35	0.17			Garrel	Y	Y	
55278.384	22-Mar-10	21:13	7674	7723	49	0.3	0.13			Leadbeater			Y
55276.343	20-Mar-10	20:14	7674	7723	49	0.3	0.13			Leadbeater			Y
55273.277	17-Mar-10	18:39	4279	7113	2834			0.1		Buil	Y		Y
55272.295	16-Mar-10	19:05	4301	7265	2964			2.14		Teyssier	Y	Y	Y
55271.399	15-Mar-10	21:35	6520	6680	160			0.11	242	Mauclaire	Y	Y	Y
55271.282	15-Mar-10	18:46	4279	7113	2834			0.1		Buil	Y		Y
55269.389	13-Mar-10	21:20	6520	6680	160			0.11	214	Mauclaire	Y	Y	Y
55269.374	13-Mar-10	20:59	7674	7723	49	0.3	0.13			Leadbeater			Y
55269.277	13-Mar-10	18:39	4279	7113	2834			0.1		Buil	Y		Y

A photograph of a large astronomical telescope mounted on a tripod, pointing towards a sunset over a body of water. The sky is a gradient from blue at the top to orange and yellow near the horizon. Dark silhouettes of trees are visible in the foreground and background. In the upper right corner of the image, there is overlaid text.

June 2036
Put it in your diary !