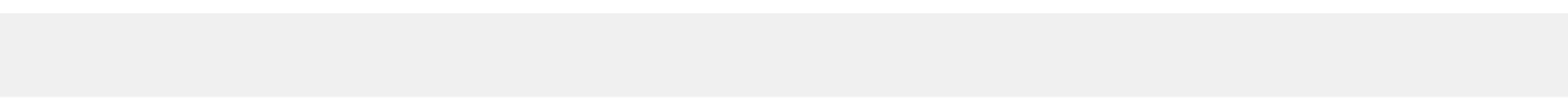


Kuzmin 100: tänapäev

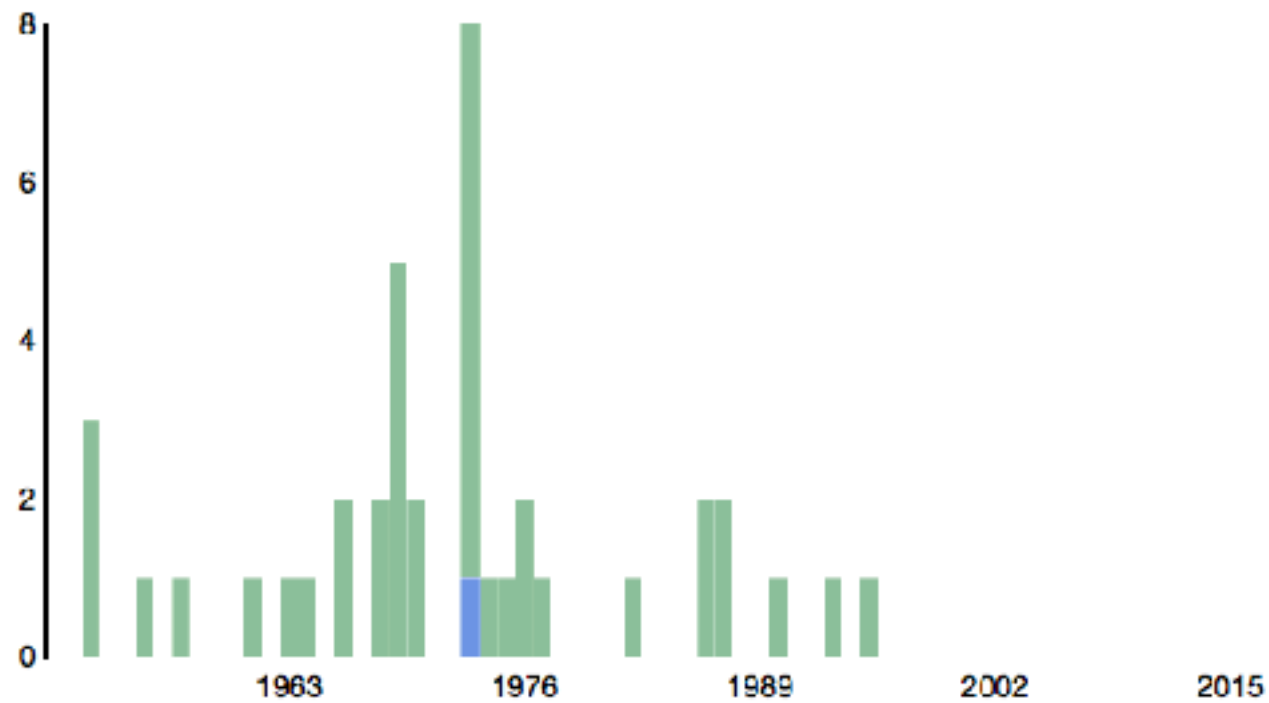
Simple citations



Total Normalized

stacked grouped

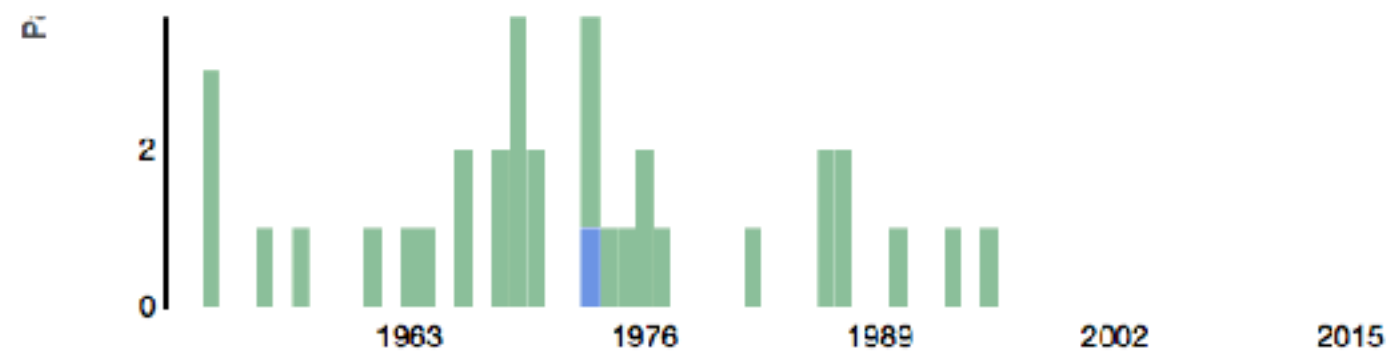
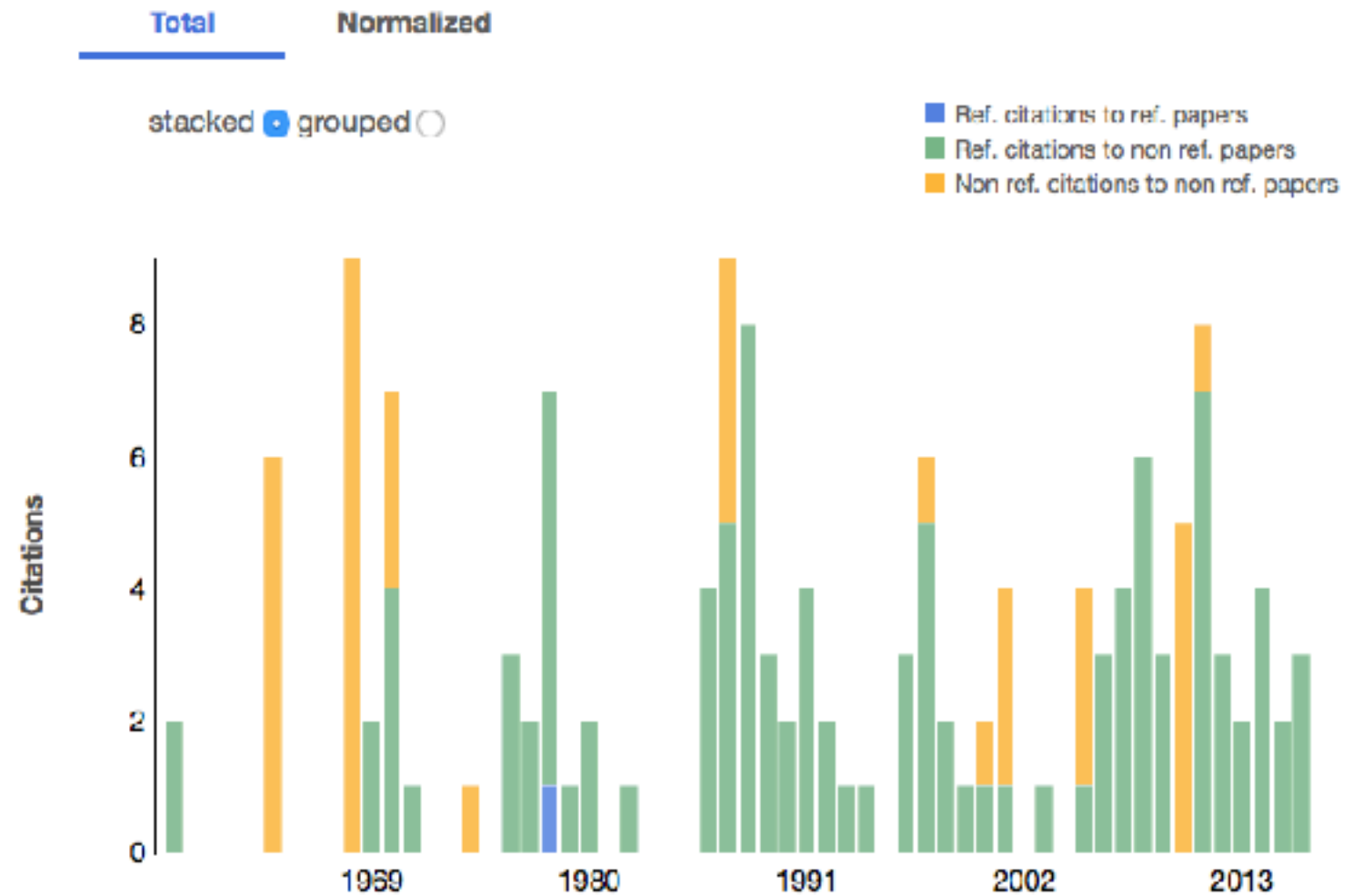
Refereed
Non-refereed



Simple citations

Citations

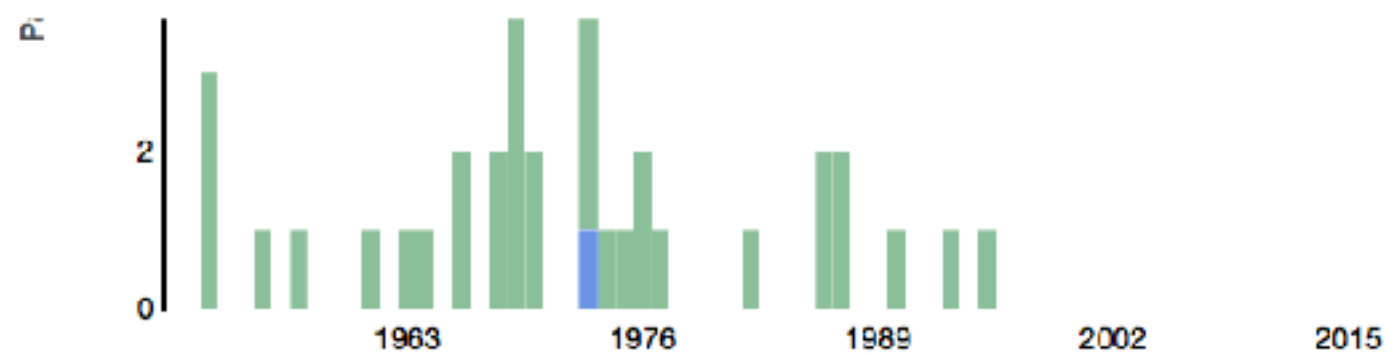
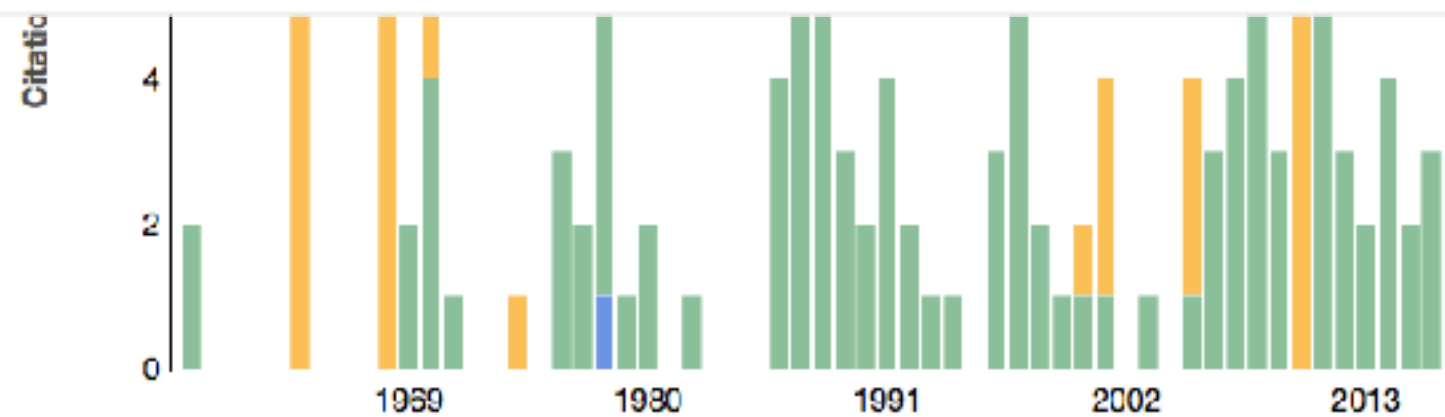
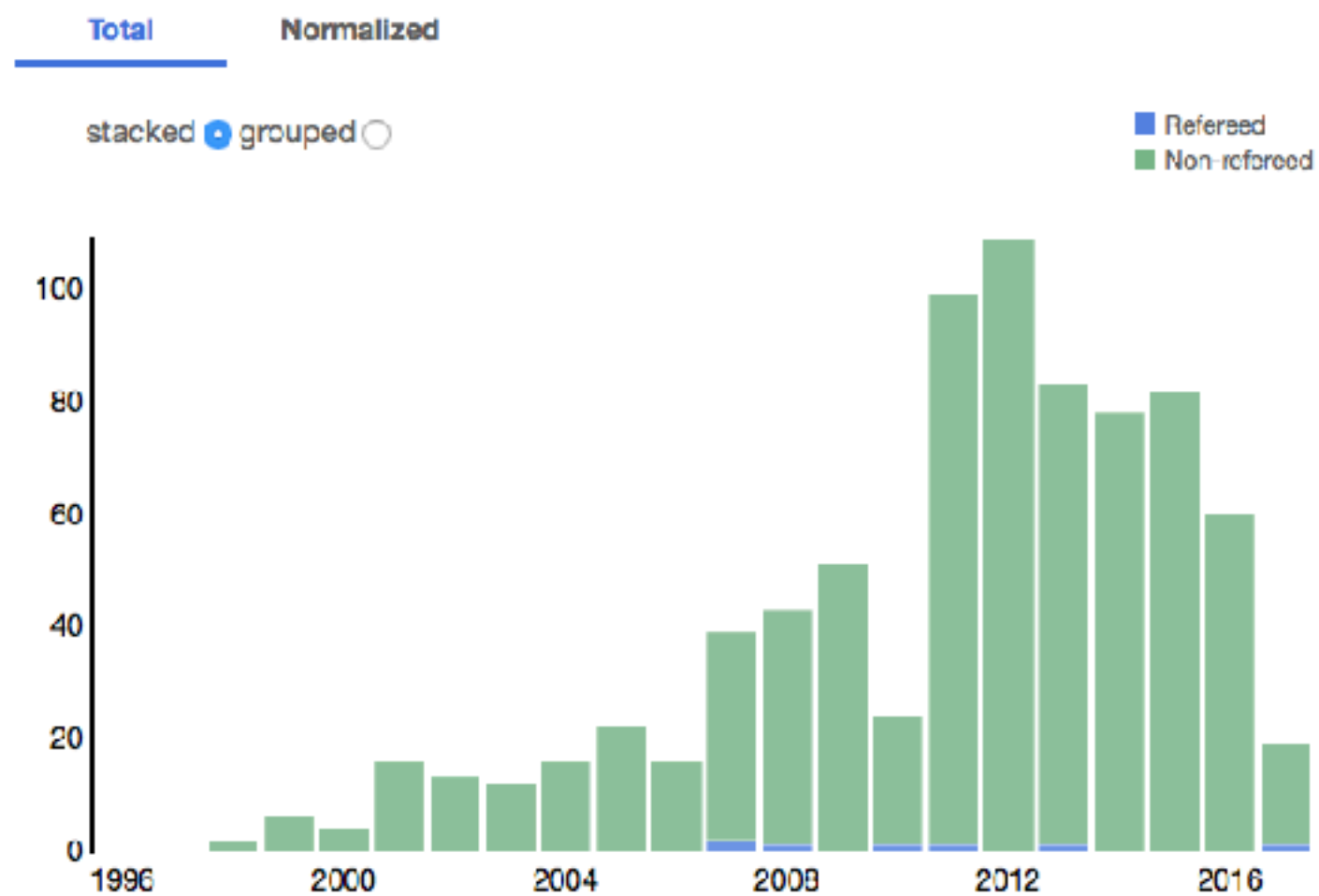
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Total citations	?	144	1
Number of self-citations	?	0	0
Average citations	?	3.6	1
Median citations	?	2	1
Normalized citations	?	124.6	0.2
Refereed citations	?	107	1
Average refereed citations	?	2.7	1
Median refereed citations	?	1.5	1
Normalized refereed citations	?	90.1	0.2



Reads

	Totals	Refereed
Total number of reads	794	7
Average number of reads	20.4	7
Median number of reads	15	7
Total number of downloads	253	0
Average number of downloads	6.6	0
Median number of downloads	0	0

Average refereed citations	2.7	1
Median refereed citations	1.5	1
Normalized refereed citations	90.1	0.2



Kes viitavad?

#	Bibcode Authors	Cites Title	Date	List of Links Access Control Help					
1	2016MNRAS.455.1079P Price-Whelan, Adrian M.; Johnston, Kathryn V.; Valluri, Monica; Pearson, Sarah; Küpper, Andreas H. W.; Hogg, David W.	1.000 Chaotic dispersal of tidal debris	01/2016	A E F X	R C S			U	
2	2011BaltA..20..211D de Zeeuw, P. Tim; van de Ven, Glenn	1.000 Grigori Kuzmin and Stellar Dynamics	00/2011	A F G X	R C S			U	
3	2009MNRAS.396..109W Wu, Xufen; Zhao, Hongsheng; Wang, Yougang; Llinares, Claudio; Knebe, Alexander	1.000 N-body simulations for testing the stability of triaxial galaxies in MOND	06/2009	A E F X	R C			U	
4	2006A&A...455..499C Cincotta, P. M.; Giordano, C. M.; Pérez, M. J.	1.000 Global dynamics in galactic triaxial systems. I	08/2006	A E F X	R C			U	
5	2000AdSAC..10..229V Valluri, Monica; Merritt, David	1.000 Orbital Instability and Relaxation in Stellar Systems	05/2000	A E X	R C			U	
6	1999PASP..111..129M Merritt, David	1.000 Elliptical Galaxy Dynamics	02/1999	A E F X	R C S N			U	
7	1998ApJ...506..686V Valluri, Monica; Merritt, David	1.000 Regular and Chaotic Dynamics of Triaxial Stellar Systems	10/1998	A E F X	R C S			U	
8	1998NYASA.848..48M Merritt, David; Valluri, Monica	1.000 Self-Consistent Gravitational Chaos	00/1998	E	T R C				
9	1997MNRAS.292..657S Sridhar, S.; Touma, J.	1.000 Three-dimensional, axisymmetric cusps without chaos	12/1997	A E F G X	R C S			U	

Kuzmini ketas

a.k.a. Toomre's model 1

$$\Phi_K(R, z) = -\frac{GM}{\sqrt{R^2 + (a + |z|)^2}} \quad (a \geq 0).$$

Kuzmini ketas

a.k.a. Toomre's model 1

$$\Phi_K(R, z) = -\frac{GM}{\sqrt{R^2 + (a + |z|)^2}} \quad (a \geq 0).$$



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Analytical potential-density pairs from complex-shifted Kuzmin-Toomre discs

[D. Vogt](#), [P. S. Letelier](#)

(Submitted on 6 Aug 2009)

The complex-shift method is applied to the Kuzmin-Toomre family of discs to generate a family of non-axisymmetric flat distributions of matter. These are then superposed to construct non-axisymmetric flat rings. We also consider triaxial potential-density pairs obtained from these non-axisymmetric flat systems by means of suitable transformations. The use of the imaginary part of complex-shifted potential-density pairs is also discussed.

Comments: 20 pages, 7 figures, accepted for publication in MNRAS

Subjects: [Astrophysics of Galaxies \(astro-ph.GA\)](#)

Journal reference: MNRAS, 398, 1563 (2009)

DOI: [10.1111/j.1365-2966.2009.15217.x](https://doi.org/10.1111/j.1365-2966.2009.15217.x)

Cite as: [arXiv:0908.0872 \[astro-ph.GA\]](#)

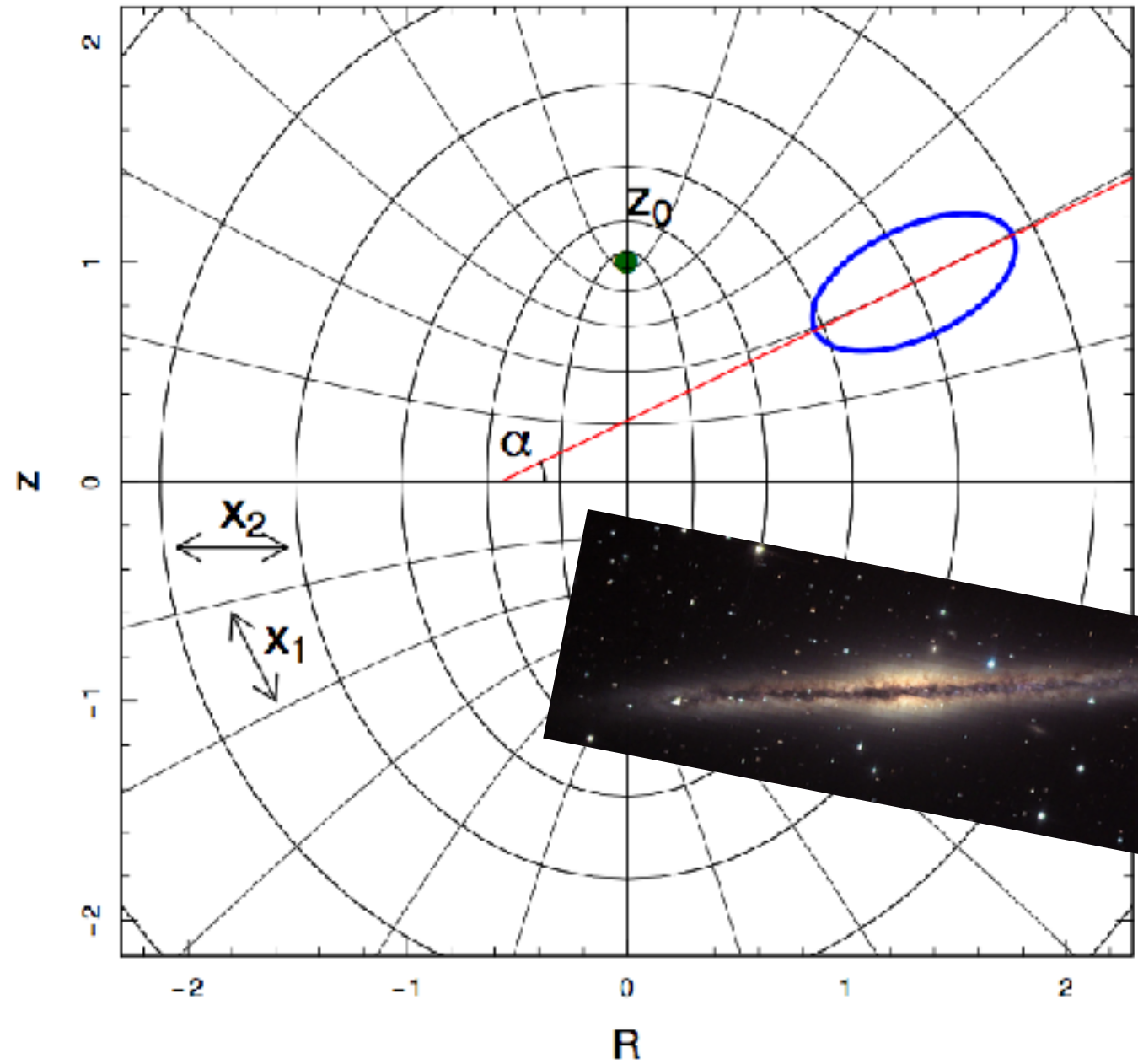
(or [arXiv:0908.0872v1 \[astro-ph.GA\]](#) for this version)

Kolmas liikumisintegraali

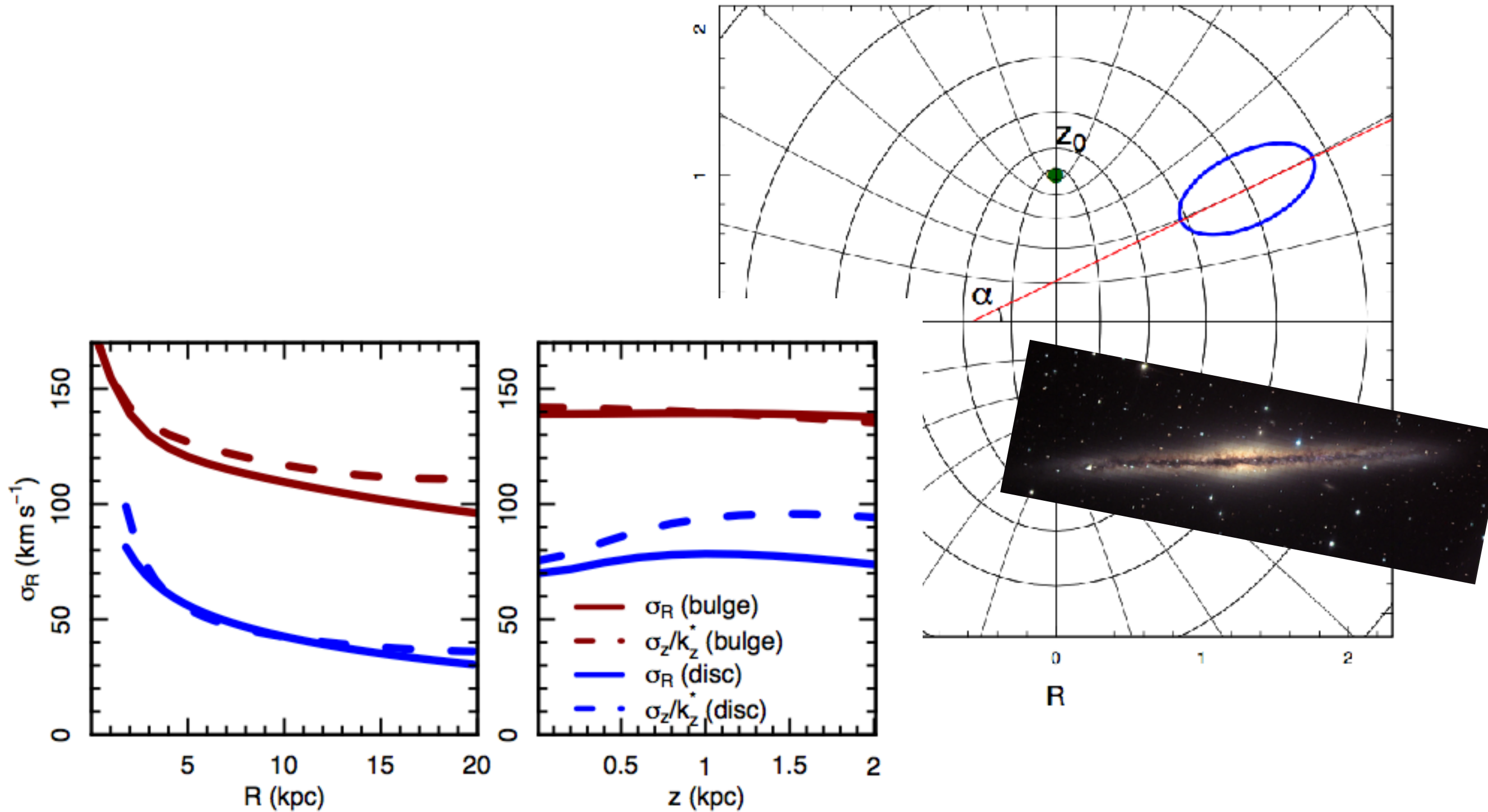
$$J_3 = (Rv_z - zv_R)^2 + z^2 v_\theta^2 + z_0^2 (v_z^2 - 2\Phi^*).$$

$$\left. \begin{aligned} z_0^2 \frac{\partial \Phi^*}{\partial R} &= z^2 \frac{\partial \Phi}{\partial R} - Rz \frac{\partial \Phi}{\partial z}, \\ z_0^2 \frac{\partial \Phi^*}{\partial z} &= (R^2 + z_0^2) \frac{\partial \Phi}{\partial z} - Rz \frac{\partial \Phi}{\partial R}. \end{aligned} \right\}$$

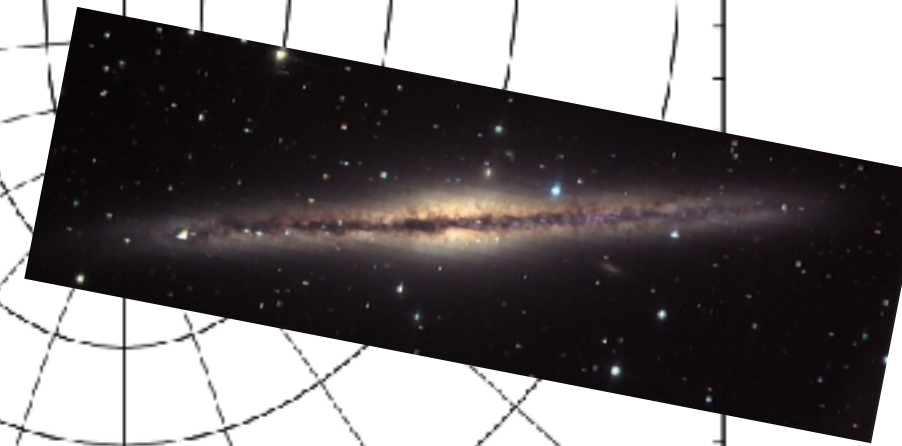
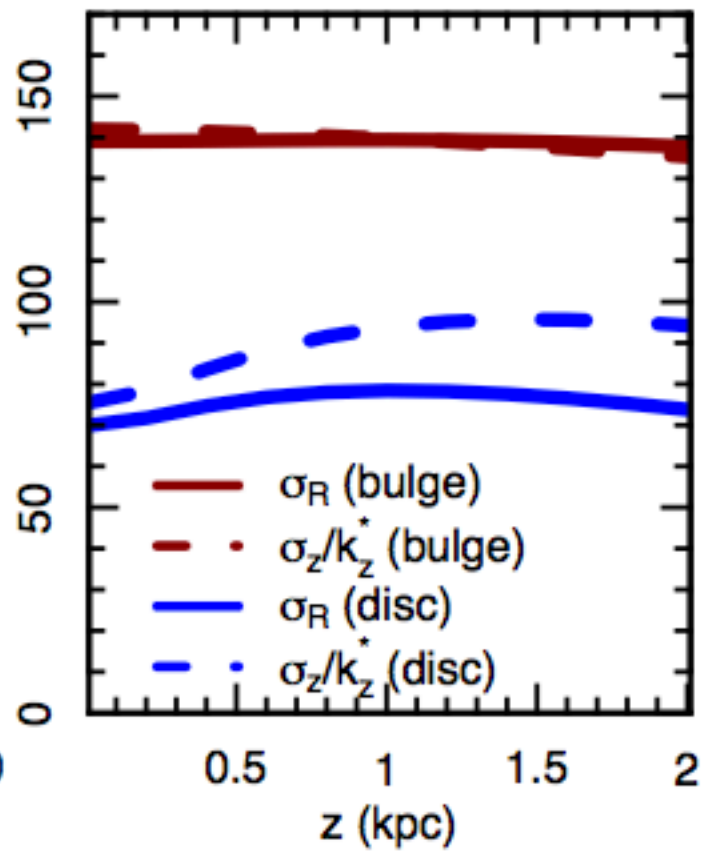
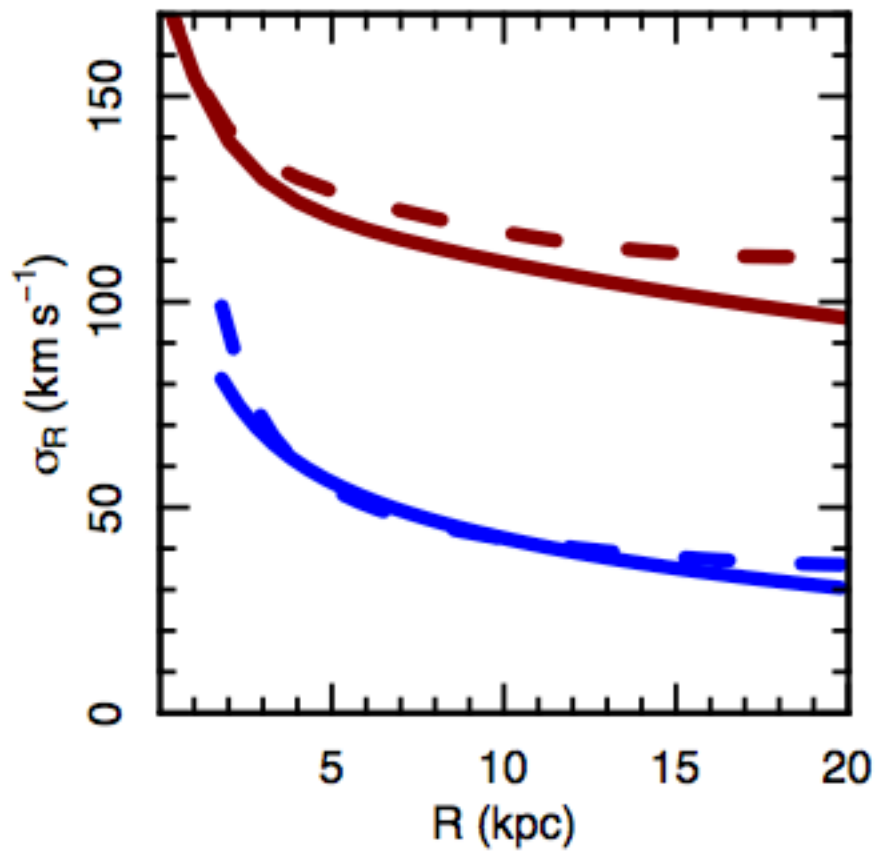
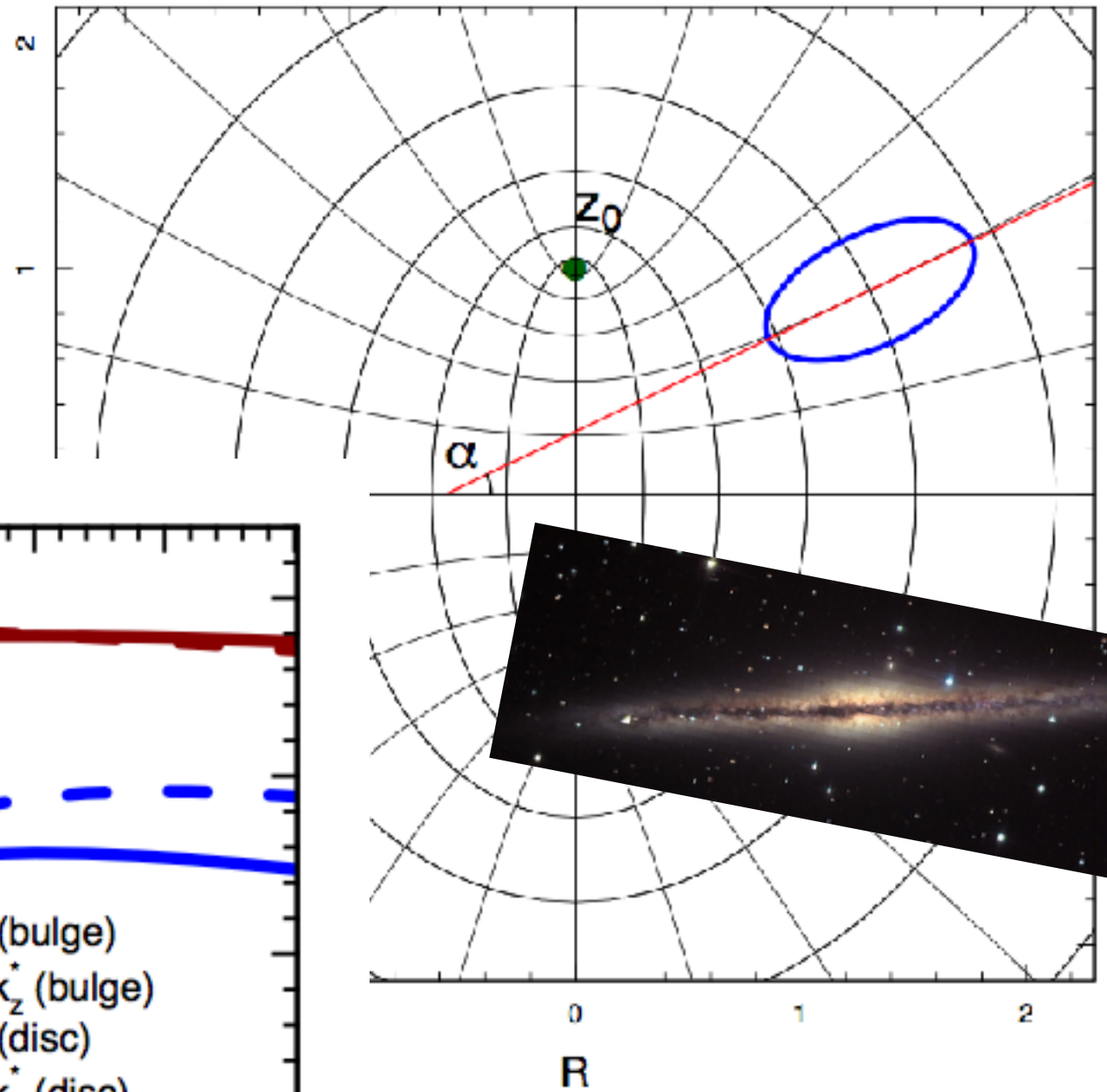
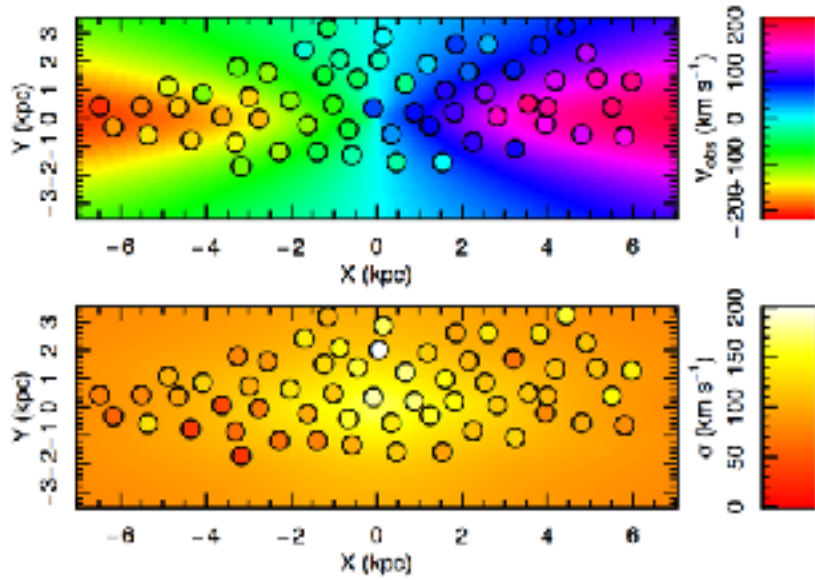
Rakendus M31



Rakendus M31



Rakendus M31



Kuzmin: 1952

Kogutihedus:

$0.18 \text{ M}_{\odot} \text{pc}^{-3}$ vs $0.05 \pm 0.01 \text{ M}_{\odot} \text{pc}^{-3}$

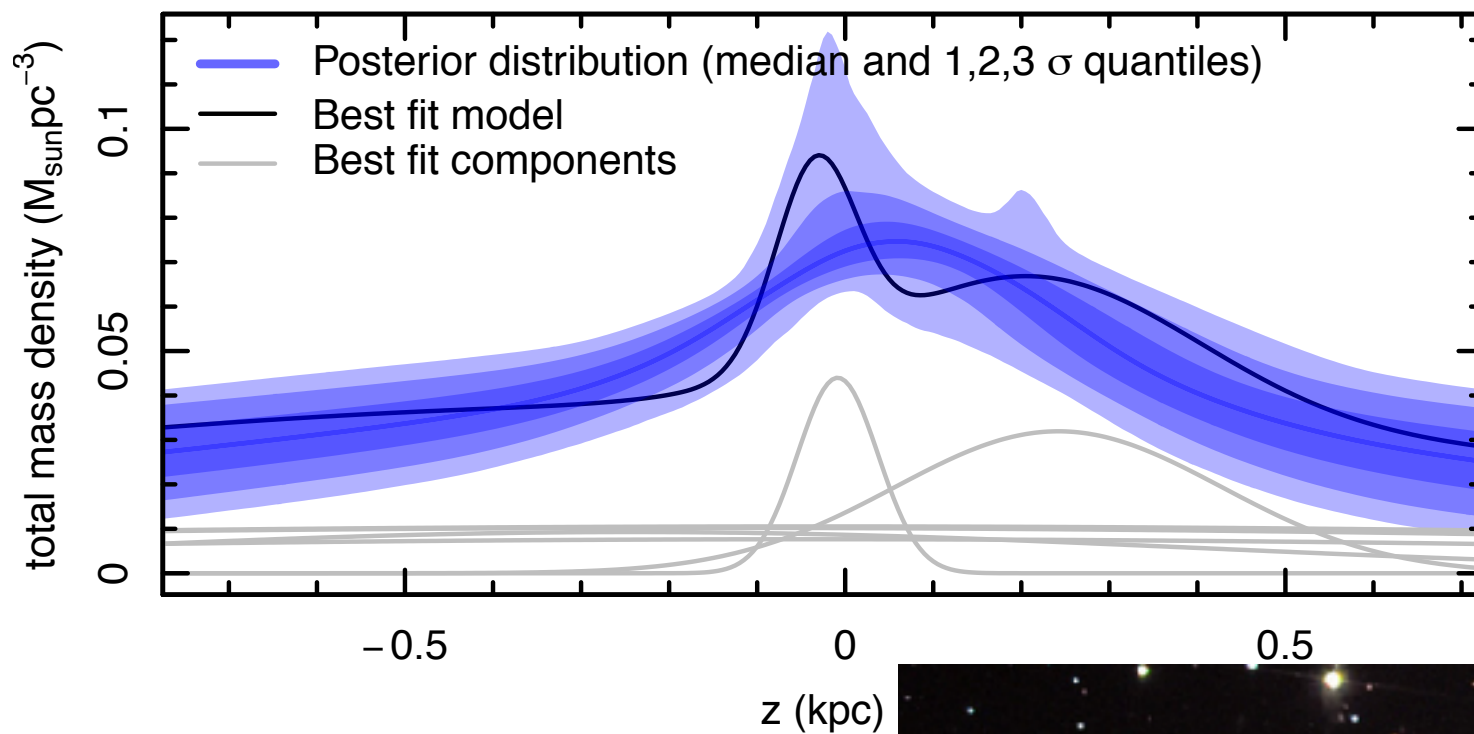
$$-\frac{\partial^2 \phi}{\partial z^2} = -\sigma_z^2 \frac{\partial^2 \ln D}{\partial z^2}.$$



Kuzmin: 1952

Kogutihedus:

$0.18 M_{\odot} \text{pc}^{-3}$ vs $0.05 \pm 0.01 M_{\odot} \text{pc}^{-3}$

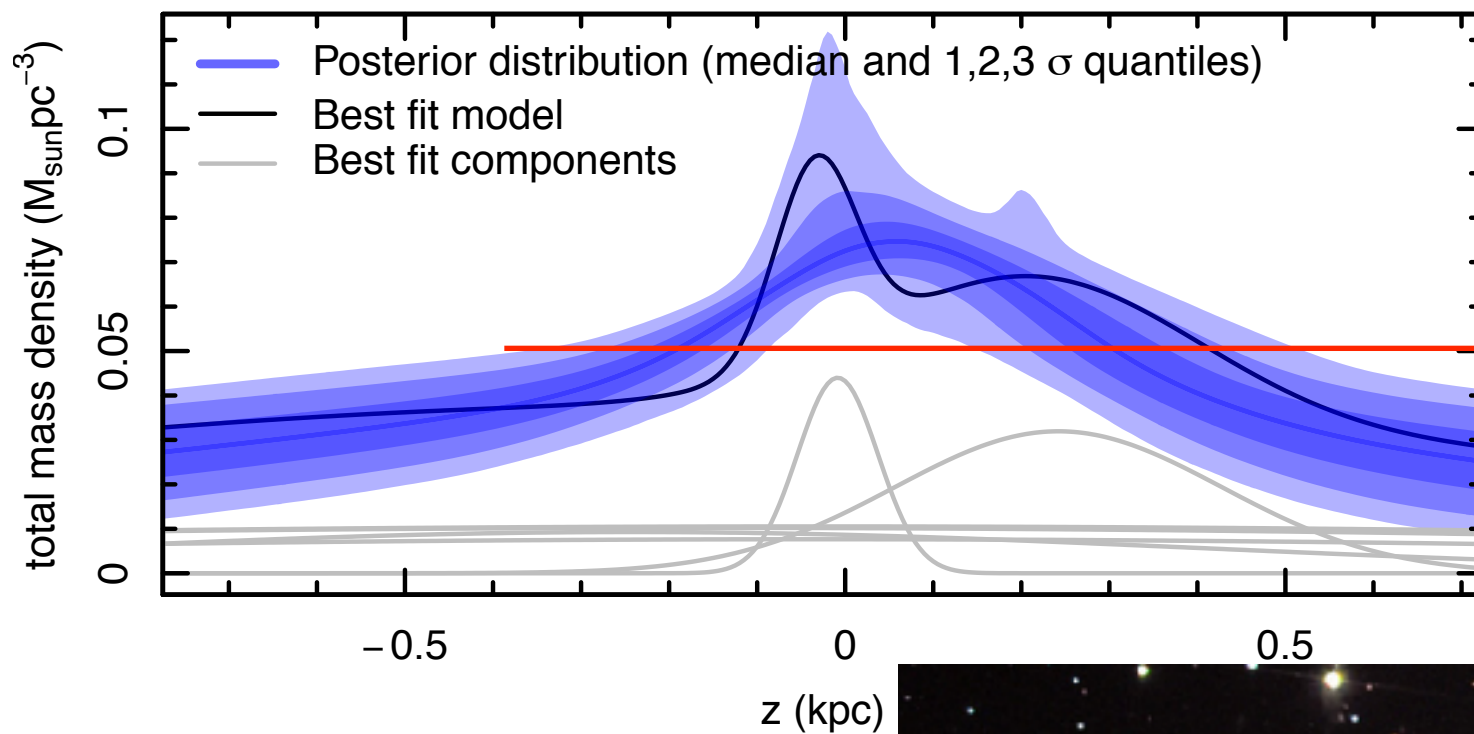


$$-\frac{\partial^2 \Phi}{\partial z^2} = -\sigma_z^2 \frac{\partial^2 \ln D}{\partial z^2}.$$



Kuzmin: 1952

Kogutihedus:
 $0.18 M_{\odot} \text{pc}^{-3}$ vs $0.05 \pm 0.01 M_{\odot} \text{pc}^{-3}$



$$-\frac{\partial^2 \Phi}{\partial z^2} = -\sigma_z^2 \frac{\partial^2 \ln D}{\partial z^2}.$$

Tiheduse hinnang: Kuzmin (1952)



Kokkuvõte

Kuzmini ketas on üldkasutatav potentsiaal

Kolmas integraal, on väga oluline, kuid kahjuks vähelevinud Kuzmini tulemus

Kuzmini tööd on ikka veel olulised!