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The dynamical effects of the bar on the Galactic thin and thick disks

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Document Version

Publisher's PDF, also known as Version of record

Publication date:
2014

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Monari, G. (2014). *The dynamical effects of the bar on the Galactic thin and thick disks*. [Thesis fully internal (DIV), University of Groningen]. [S.n.].

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Propositions

accompanying Giacomo Monari's dissertation

The dynamical effects of the bar on the Galactic thin and thick disks

1. The velocity distributions of stars in both the thin and thick disks of the Milky Way are expected to show significant imprints due to resonances with the Galactic bar, both on the Galactic plane as well as far from it (Chapter 2).
2. The bar induces different mean radial and tangential motions on the stars of the Milky Way's thin and thick disks whose variation can be used to assess the properties of the bar itself (Chapters 1 and 2).
3. The fraction of orbits trapped to resonances with the Galactic bar should be similar for the thin and thick disks, and stay constant with height from the Galactic plane (Chapter 3).
4. The Galactic bar can be responsible for the radial velocity gradient reported recently for stars near the Sun by the *RAVE* survey (Chapter 4).
5. Astronomy and Physics may be considered as branches of Natural Philosophy.
6. The aim of Natural Philosophy is to search for eternal principles and order in the variety of natural phenomena.
7. It takes faith to believe that human intuition can order phenomena in a synthesis that reflects the reality of the world.
8. Dynamicists have the privilege of exploiting the outstanding synthesis and elegance of Classical Mechanics
9. The premise for morality is freedom.
10. Лгущий самому себе и собственную ложь свою слушающий до того доходит, что уж никакой правды ни в себе, ни кругом не различает, а стало быть, входит в неуважение и к себе и к другим. (A man who lies to himself and listens to his own lie comes to a point where he does not discern any truth either in himself or anywhere around him, and thus falls into disrespect towards himself and others.)
– *Fyodor Mikhailovich Dostoevsky*
11. Cum enim se voluntas relicto superiore ad inferiora convertit, efficitur mala, non quia malum est, quo se convertit, sed quia perversa est ipsa conversio. (For when the will abandons what is above itself, and turns to what is lower, it becomes evil - not because that is evil to which it turns, but because the turning itself is wicked.)
– *St. Augustine*