

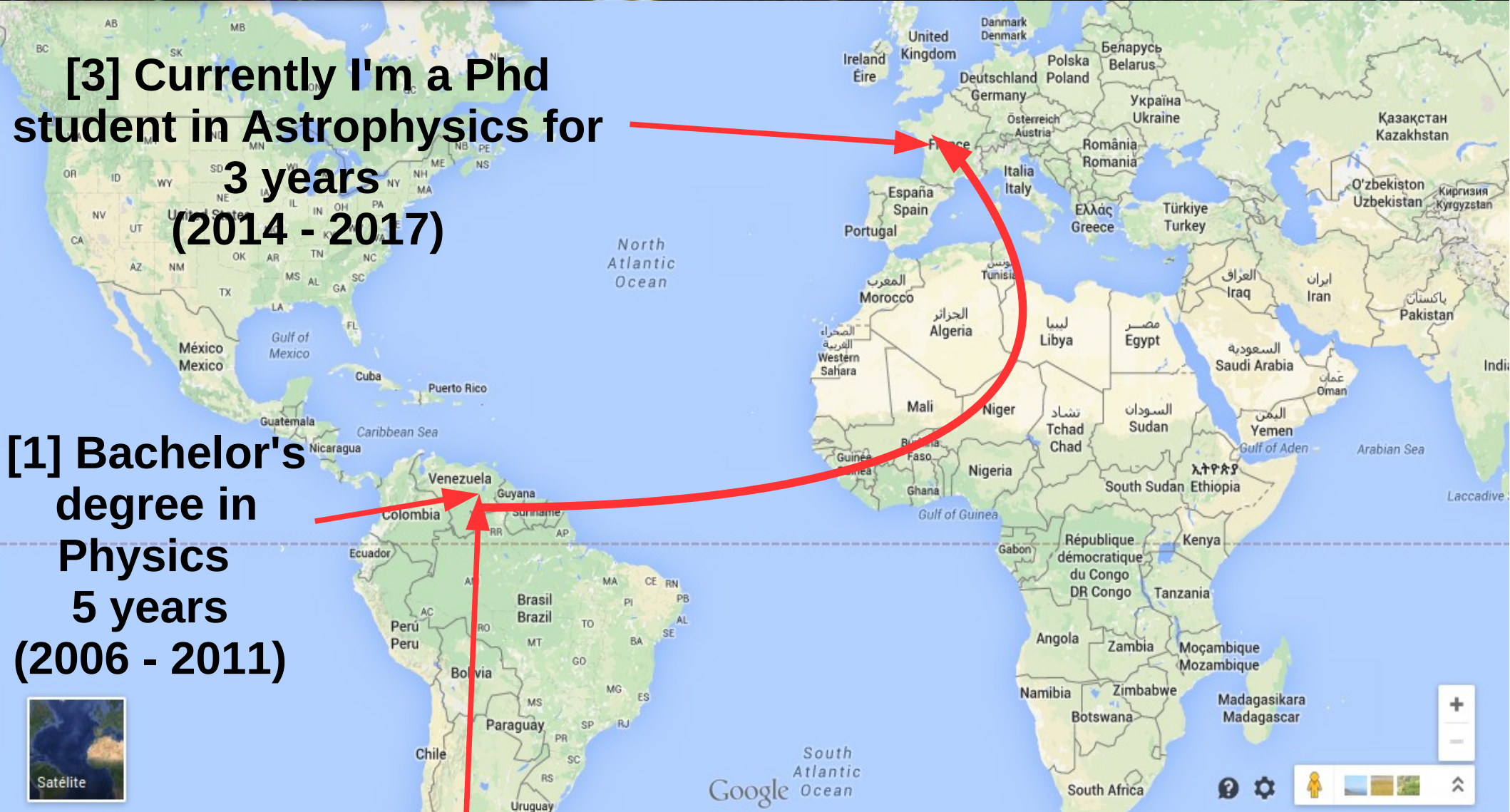


La Voie lactée à partir du Besançon

J. G. Fernández-Trincado

Lieu: Ville de Besançon
16 Décembre 2014

My academic formation

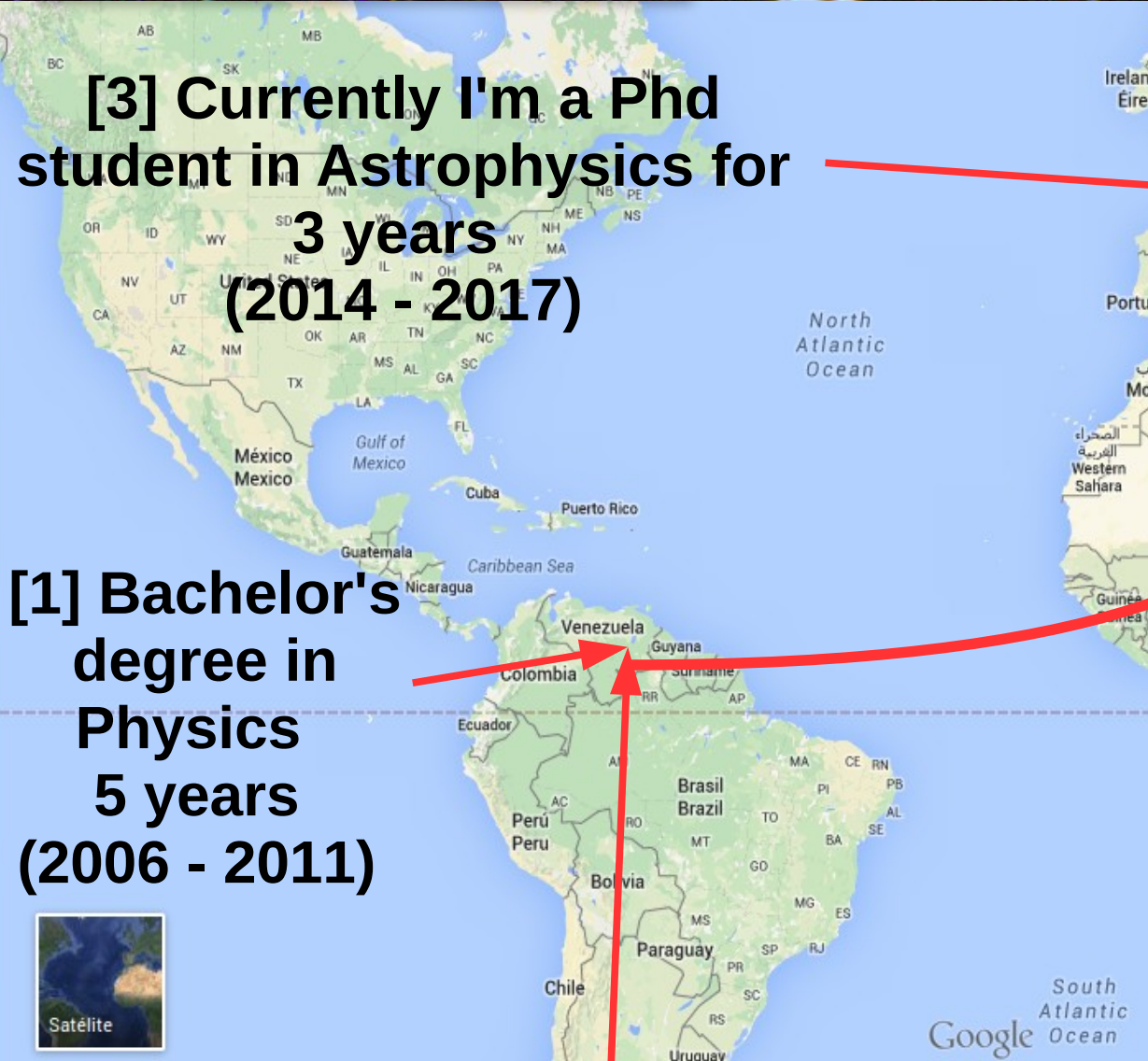


[3] Currently I'm a Phd student in Astrophysics for 3 years (2014 - 2017)

[1] Bachelor's degree in Physics 5 years (2006 - 2011)

[2] Master's degree in Physics 2 years (2012 - 2014)

My academic formation



**[1] Bachelor's degree in Physics
5 years
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Credit: J. G. Fernandez-Trincado

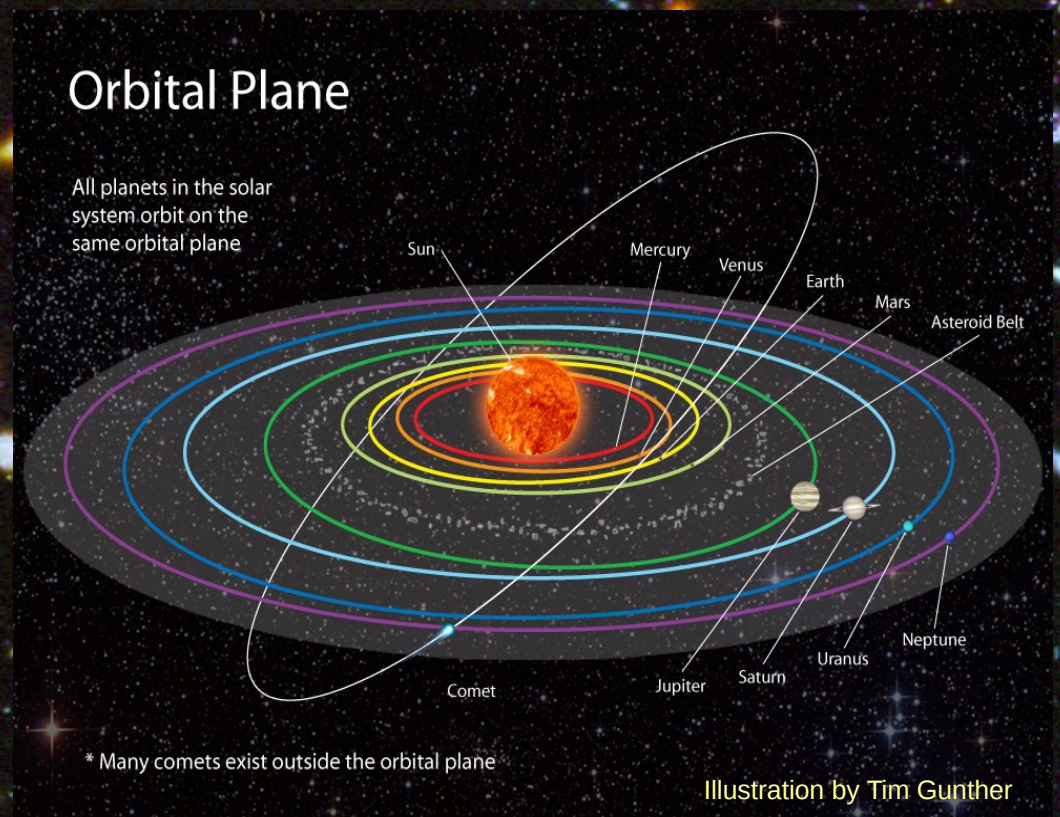
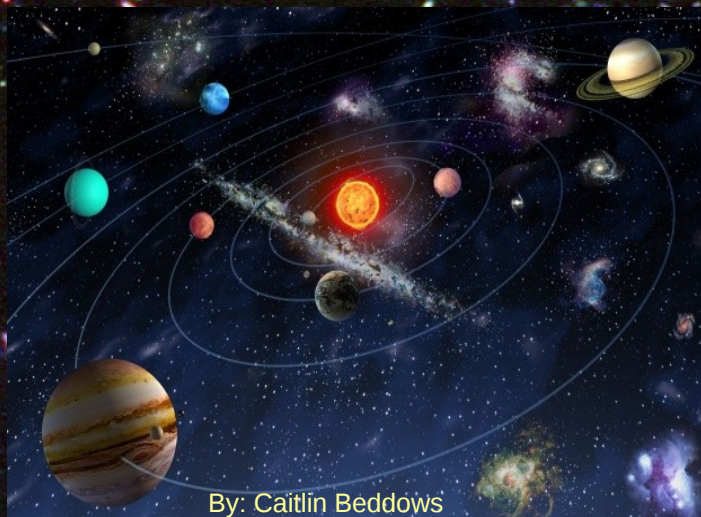
My research during last 3 years Summary

Bachelor's and Master's degree (2011-2014)

[1] Structure and formation of the Halo of the Milky Way

General idea

[1] The planets are orbiting
around of the SUN



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[1] The planets are orbiting around of the SUN

[2] The solar system moves around the center of the Milky Way

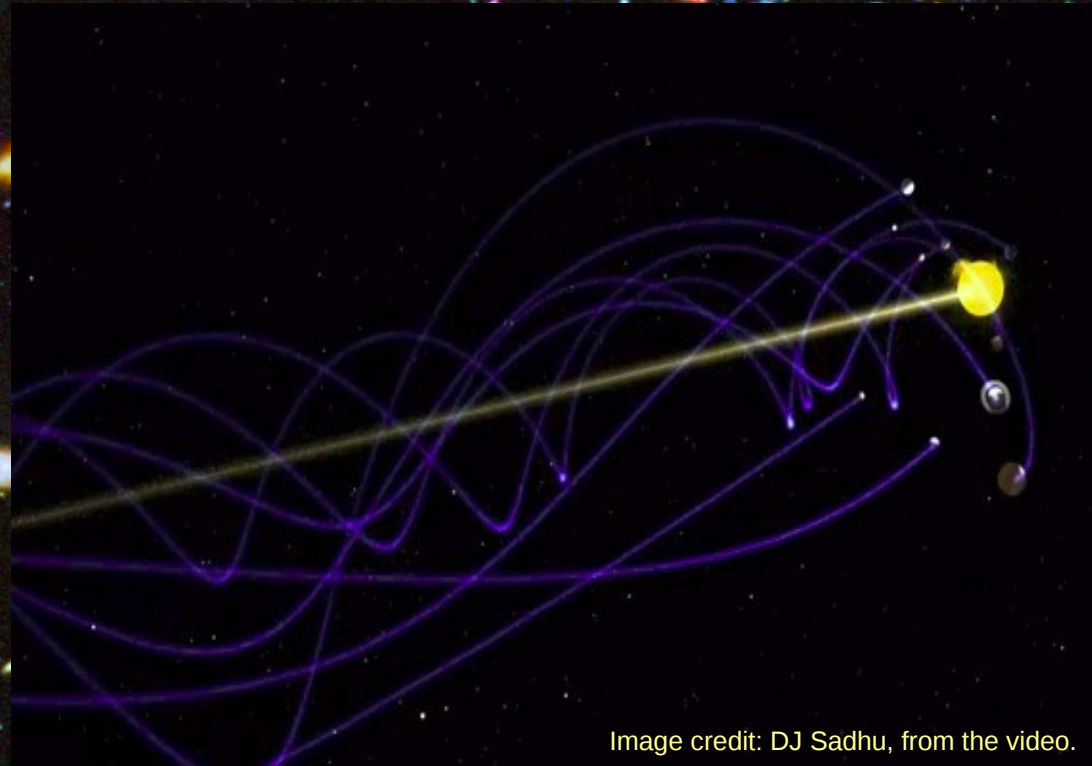


Image credit: DJ Sadhu, from the video.

My research during last 3 years Summary

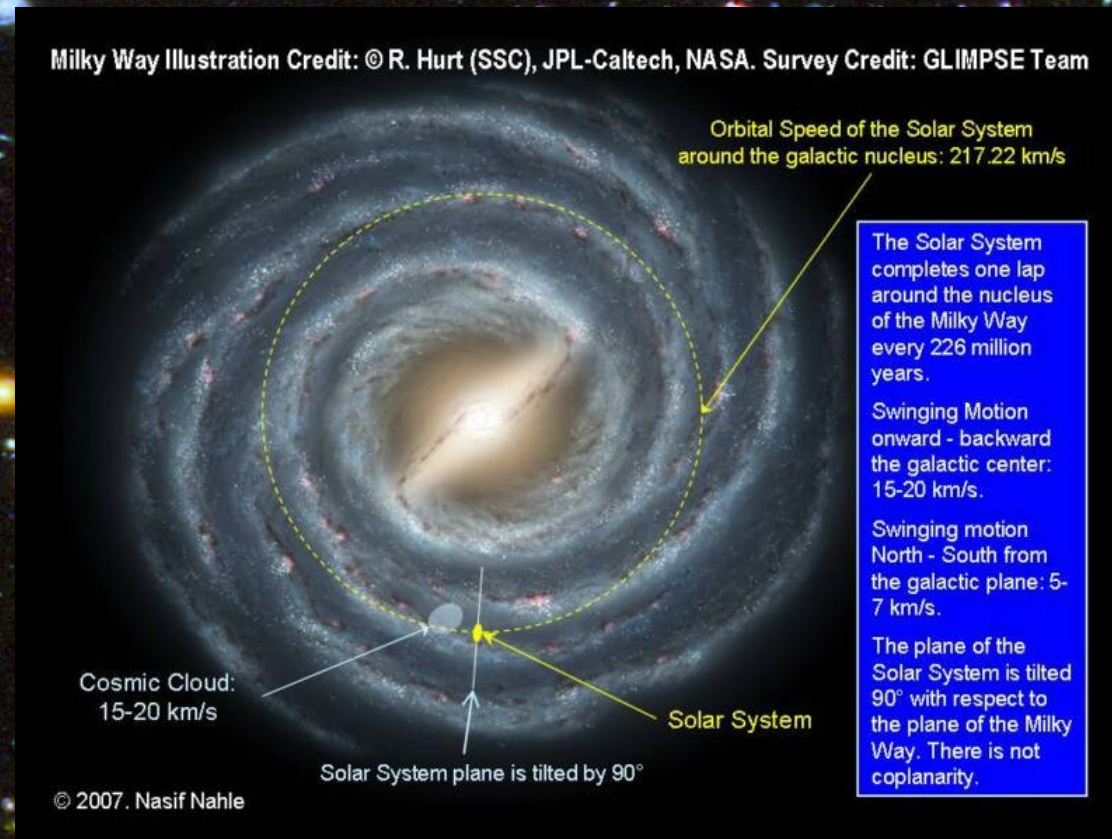
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[3] There are other old stars, dwarf galaxies and oldest stellar systems around the Milky Way

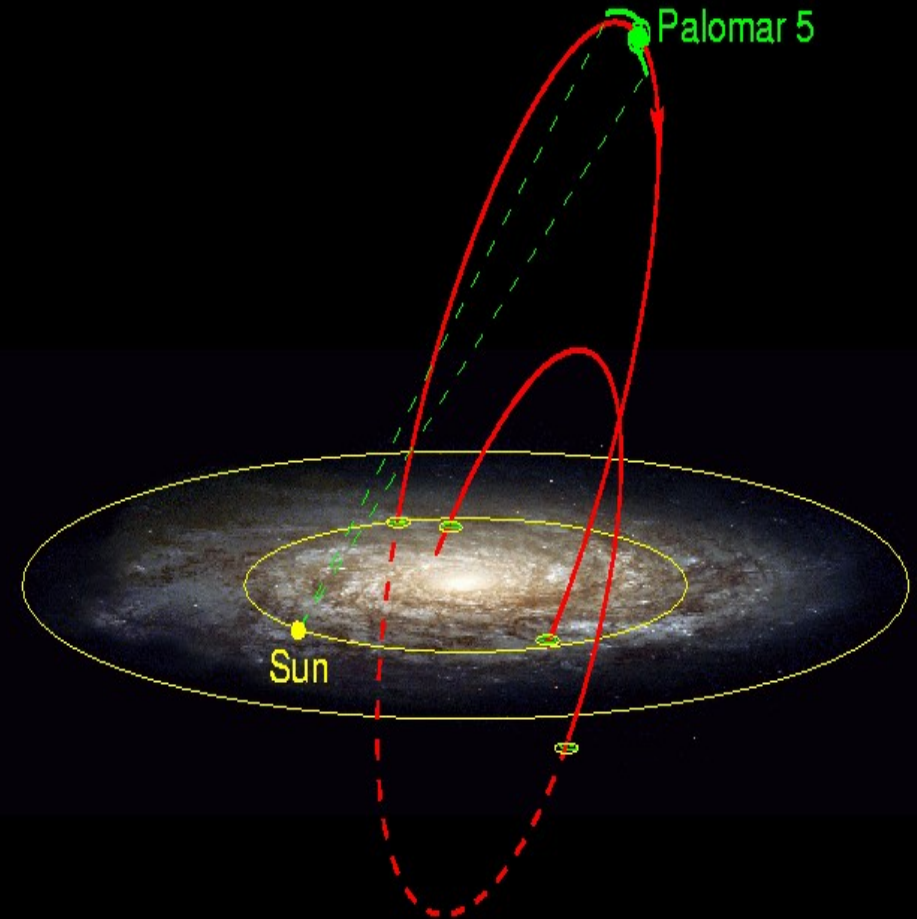


Image by: <http://classic.sdss.org/news/releases/20020603.pa15.html>

[1] Structure and formation of the Halo of the Milky Way

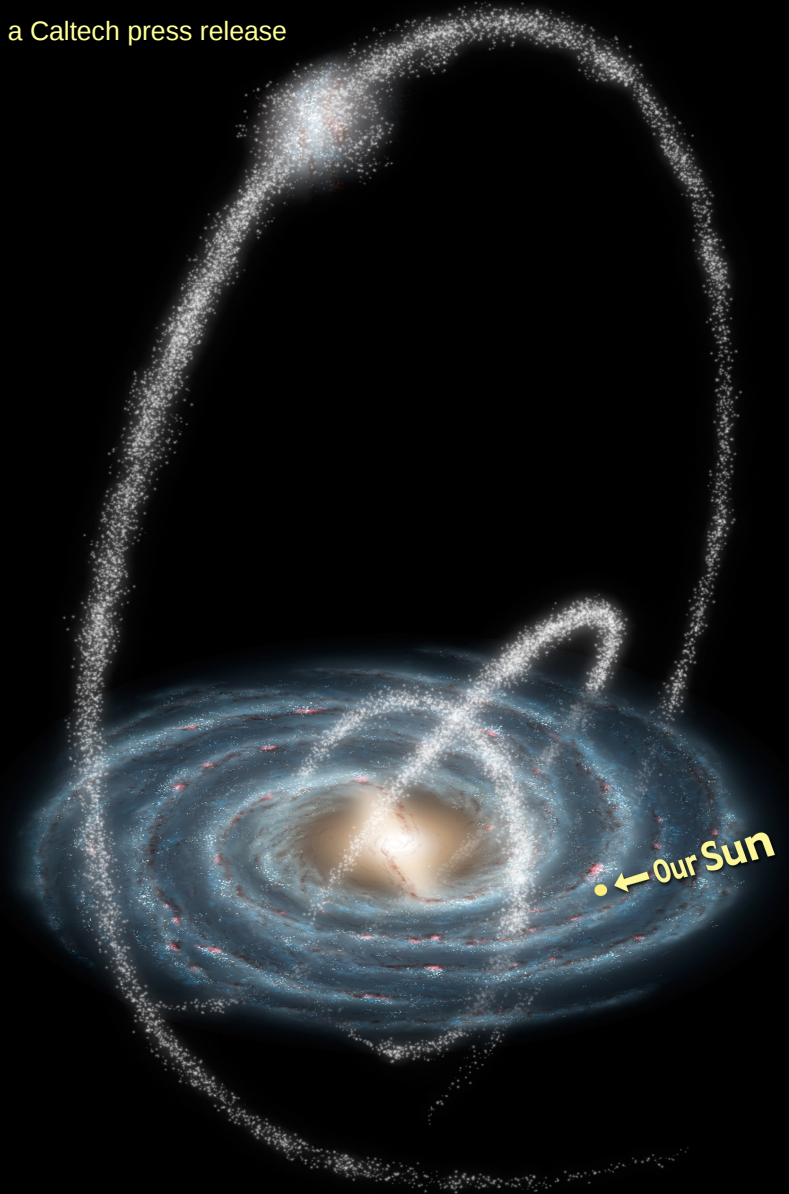
General idea

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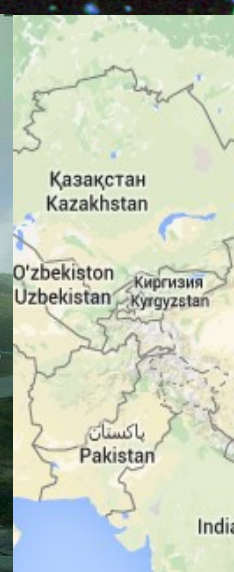
[2] The solar system moves around the center of the Milky Way

[3] Also there are other old stars, dwarf galaxies and oldest stellar systems around the Milky Way

Taken from a Caltech press release



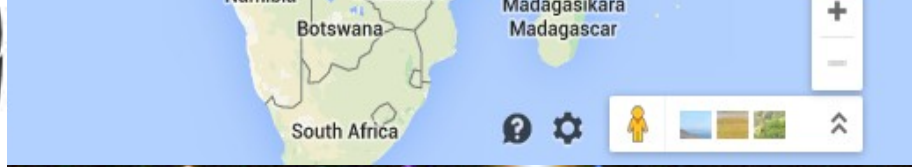
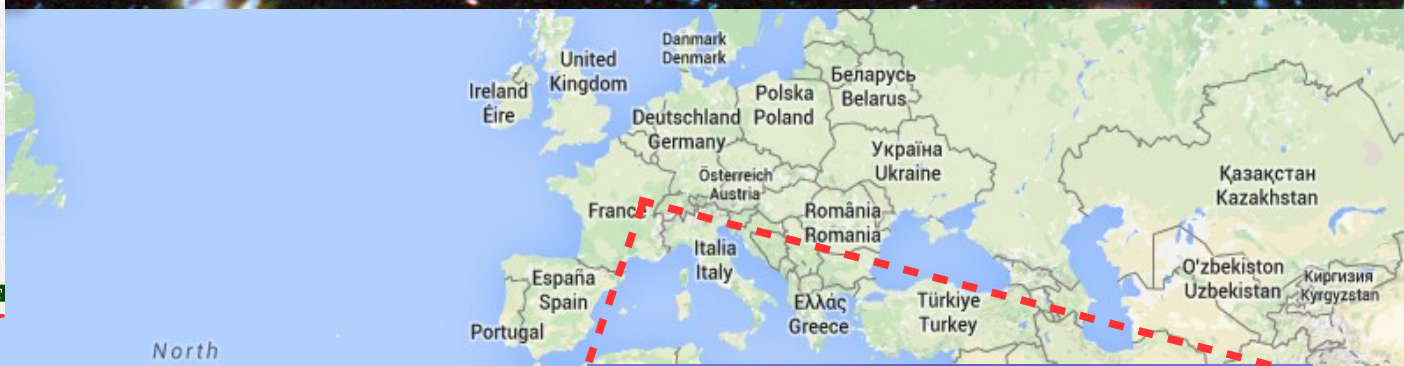
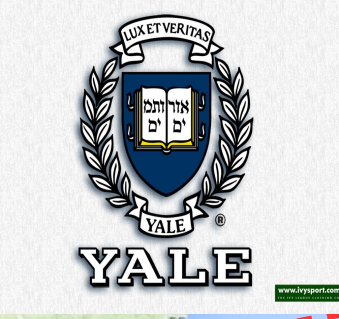
During my Bachelor's and Master's degree (2011-2014)



The SMARTS Consortium operates four small telescopes 1.5 m on Cerro Tololo.



During my Bachelor's and Master's degree (2011-2014)



We discovered a new stars group outside of Omega Centauri that could be traces of a dwarf galaxy destroyed by the Milky Way



Results were Published

← www.aanda.org/index.php?option=com_article&access=doi&doi=10.1051/0004-6361/201424899

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Title: Searching for tidal tails around omega Centauri using RR Lyrae stars
Author(s): J. G. Fernandez-Trincado, A. K. Vivas, C. E. Mateu, R. Zinn, A. C. Robin, O. Valenzuela, E. Moreno, B. Pichardo
DOI: 10.1051/0004-6361/201424899
Accepted: 11/07/14
A&A - Year: 2014
PDF (2.34 MB)

Homepage
Forthcoming
ARTICLE
- PDF (2.34 MB)

Link: http://www.aanda.org/index.php?option=com_article&access=doi&doi=10.1051/0004-6361/201424899

Currently

Phd thesis (2014 - 2017)



model.obs-besancon.fr | Model

Model of stellar population synthesis of the Galaxy

Information notice:

No support will be available from Saturday July 26th to Sunday August 10th 2014. In case of problems, the service will be unavailable for that period.

[Information :](#)

An unforeseen network cut-off took place from Thursday July 24, 13:10 GMT to today Friday July 25, 9:20 GMT. The model has been unreachable during that period. Operation has now resumed normally.

This version of the Model of stellar population synthesis of the Galaxy is fully described in the following publication:
A. C. Robin, C. Reylé, S. Derrière and S. Picaud. *A synthetic view on structure and evolution of the Milky Way*, 2003, *Astron. Astrophys.*, 409:523 **ADS** ([erratum](#): 2004, *Astron. Astrophys.*, 416:157)

On December 6, 2004, a new version was enabled that allows to use the CFHT-Megacam photometric system. More informations are available [here](#).

Photometric system:

Form of the model simulation:

Kinematics:

[Questions or comments](#)

Model forms

Description

References

Disclaimer

Changes log

last modification: July 5, 2013, 9:46 CEST

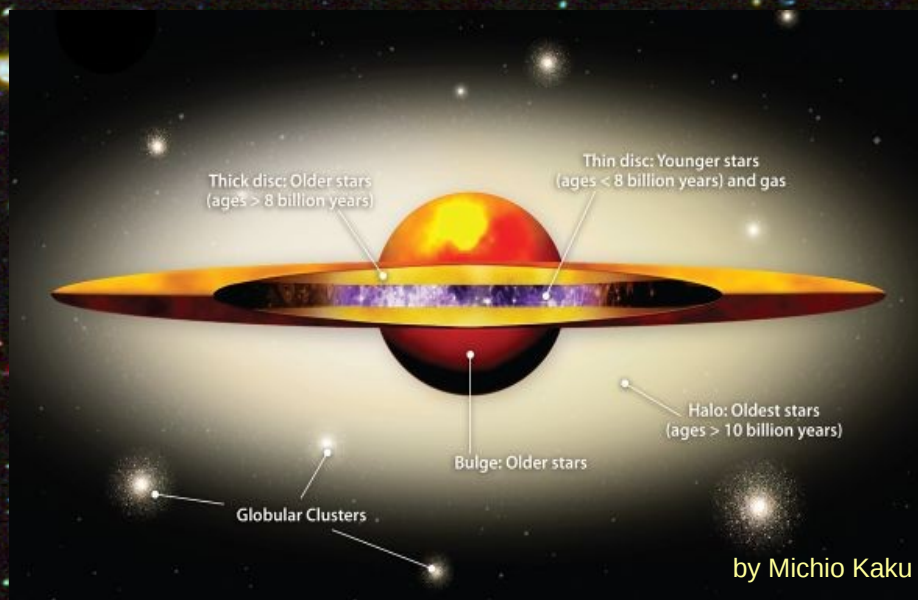
[modele\[at\]obs-besancon.fr](#)

Currently

Phd thesis (2014 - 2017)

My goal is to construct a more realistic model of the
Milky Way
studying the mass distribution in the Galaxy

Before



Now



Currently

Phd thesis (2014 - 2017)

My goal is to construct a more realistic model of the
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studying the mass distribution in the Galaxy

Before



In preparation



Currently

Phd thesis (2014 - 2017)

More realistic model for July 2015

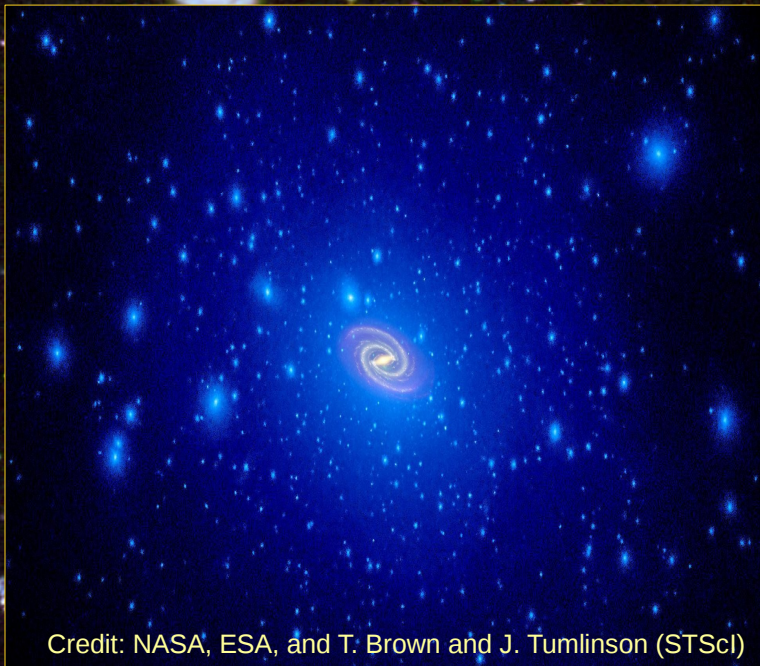


Currently

Phd thesis (2014 - 2017)

In the near future

Simulations



Credit: NASA, ESA, and T. Brown and J. Tumlinson (STScI)

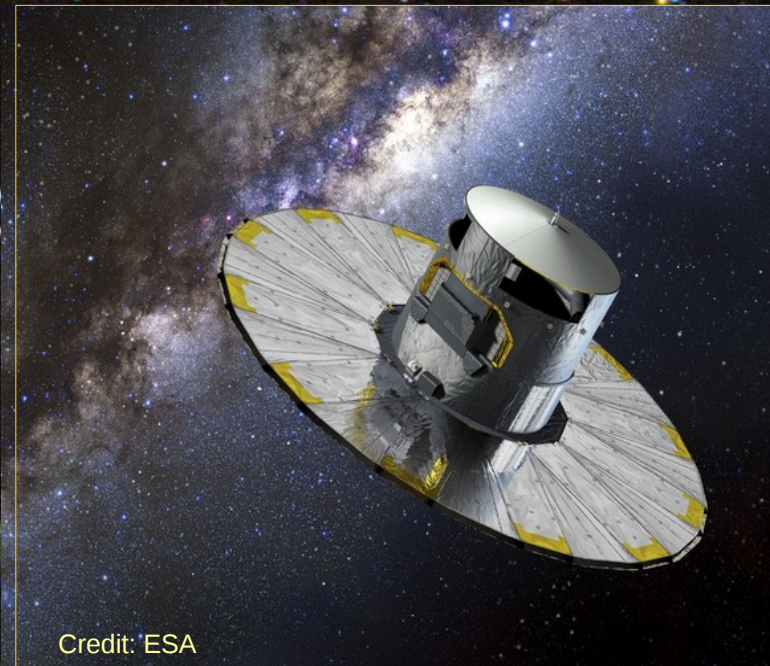
STARS

Velocities

**Gravitational
force**

**Mass
distribution**

Real data



Credit: ESA

A vast field of galaxies, likely from a deep space survey, showing a wide variety of colors including blue, yellow, orange, and red. The galaxies are scattered across the frame, with some appearing as bright, multi-pointed stars and others as faint, elongated or spiral shapes. The background is a deep black, making the colorful galaxies stand out prominently.

Merci pour votre attention