



*“The Kepler Search for  
Circumbinary Planets”*

William Welsh



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UNIVERSITY

and the

*Kepler Team*

with special thanks to:

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illustration by Lior Taylor



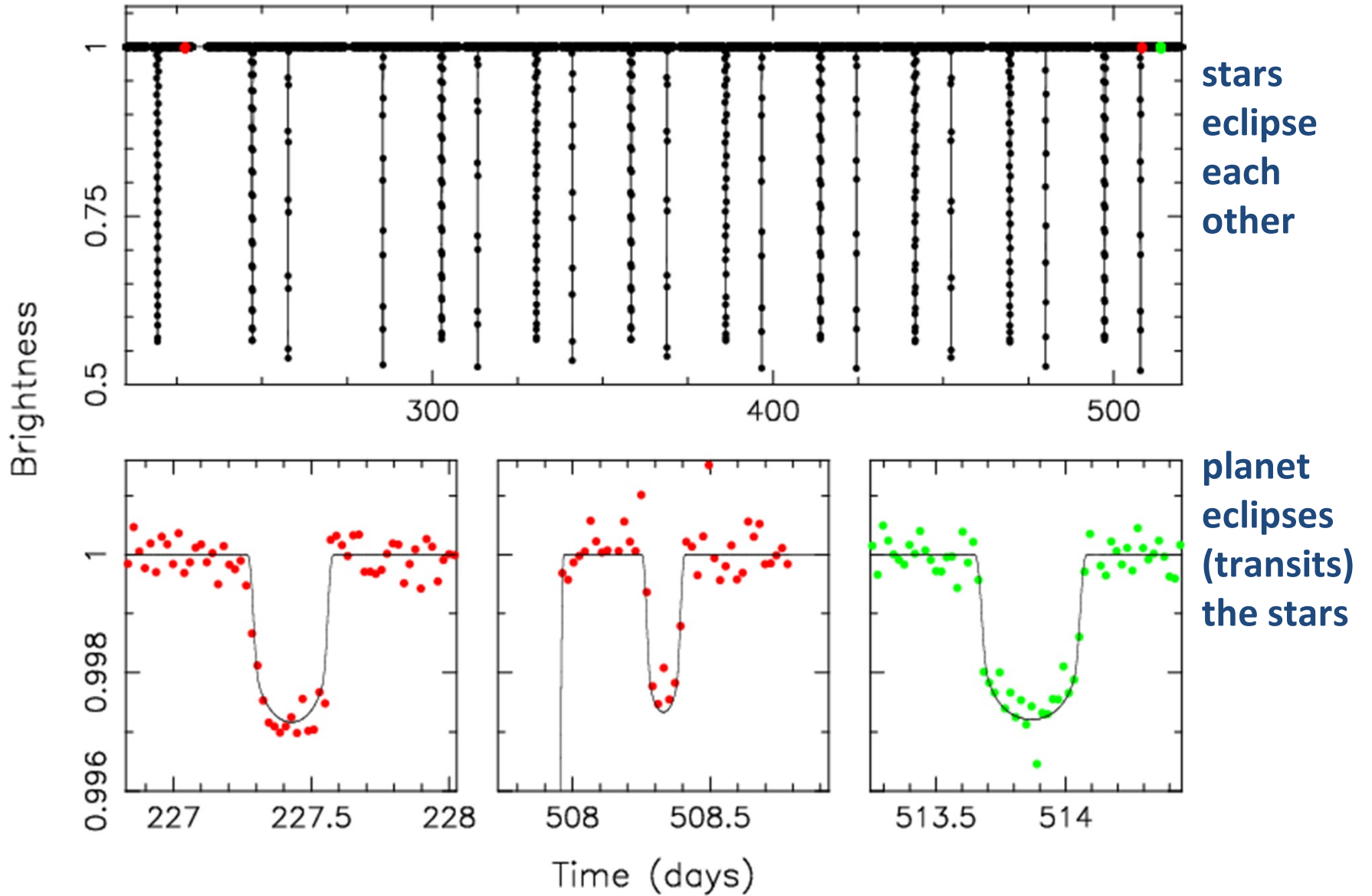
Discovery of  
Kepler-34  
and  
Kepler-35

two new “double-sun,”  
or circumbinary, planets.

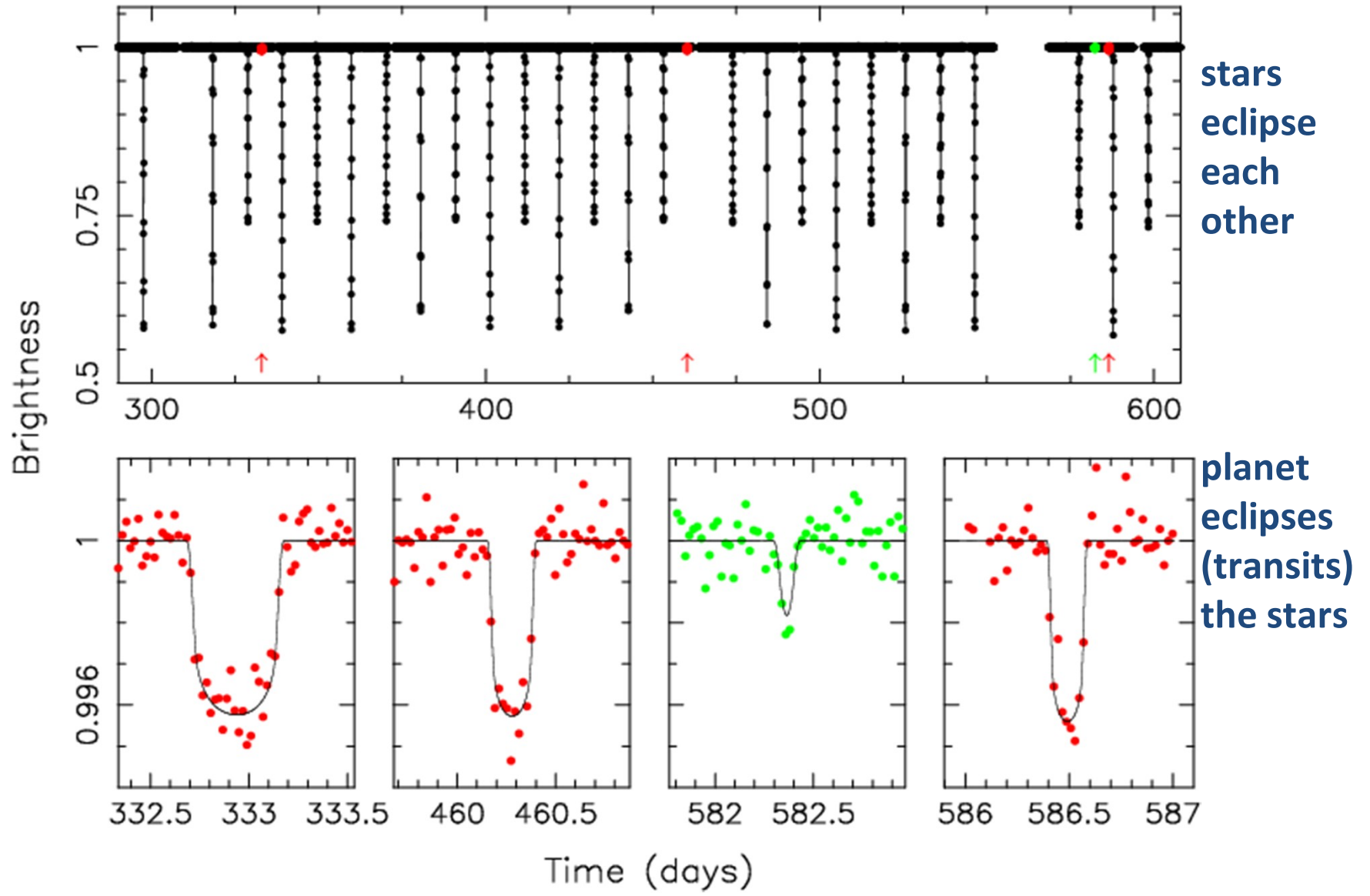
→ establishes new class  
of planetary systems

→ not rare; millions in  
our Galaxy!

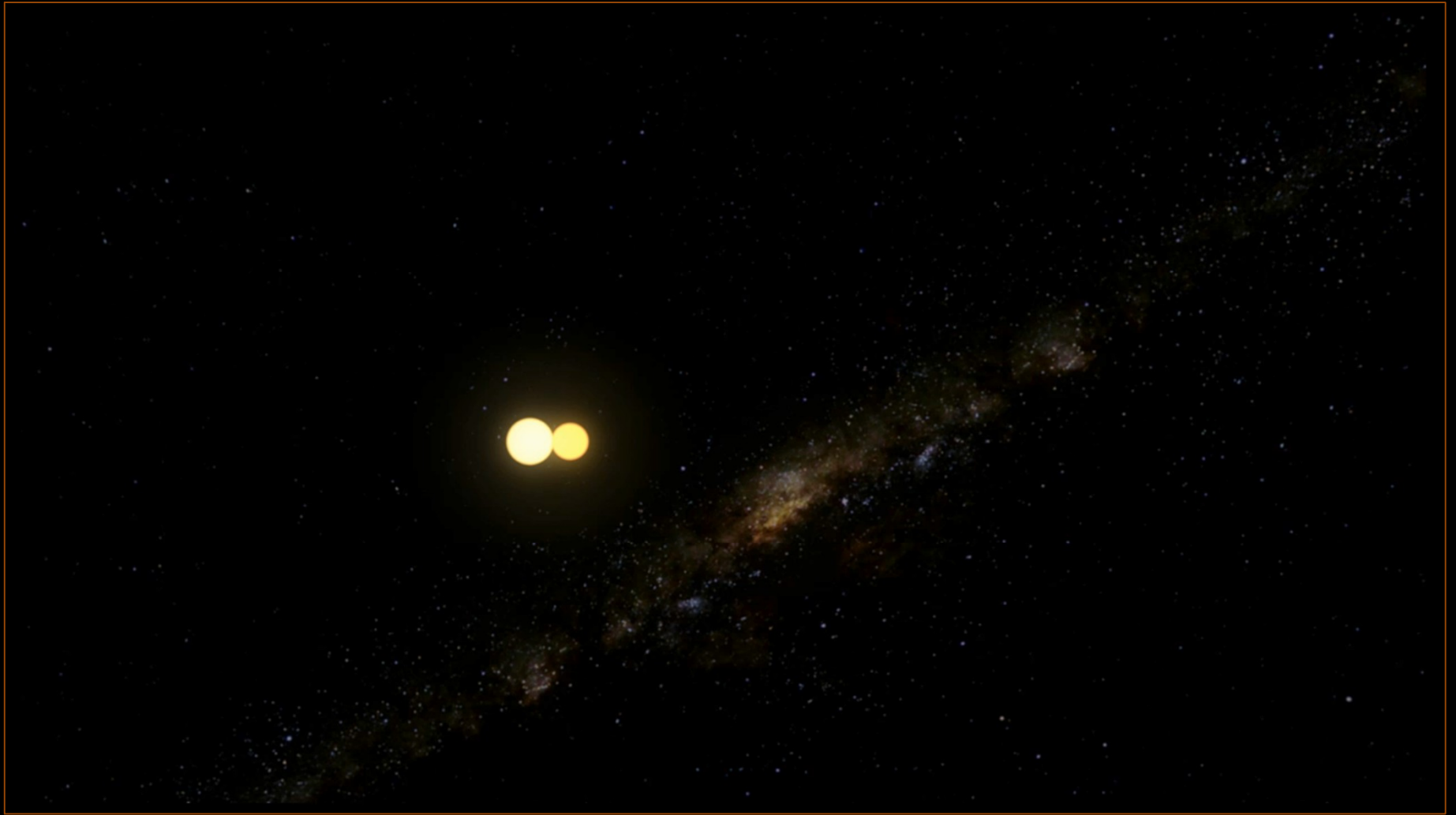
# Kepler-34



# Kepler-35




# Kepler-34 animation



W. Welsh - Kepler Circumbinary Planets

animation courtesy  
of Lior Taylor

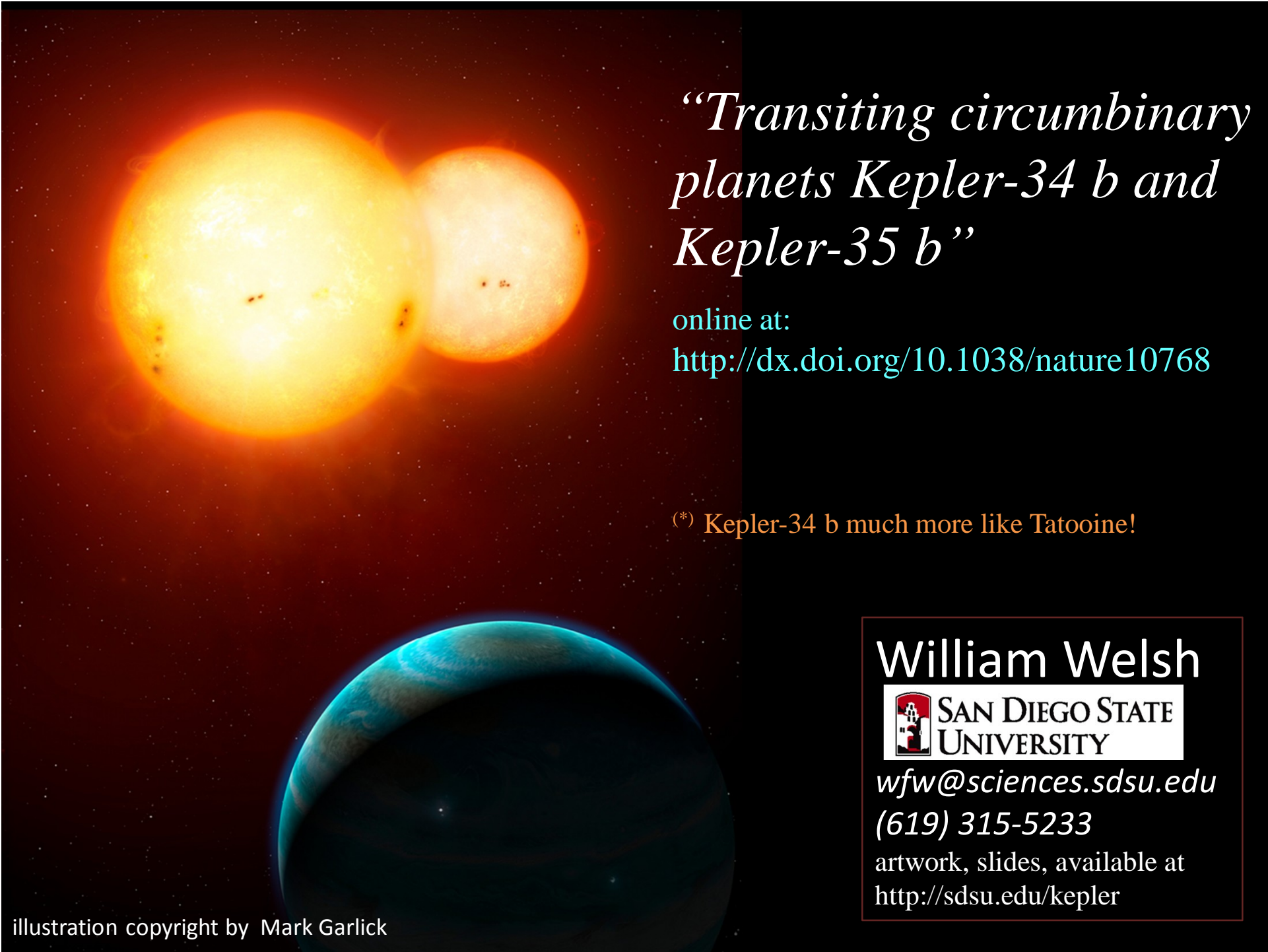


Kepler-34 b, Kepler-35 b  
Gas-giant, Saturn-mass planets,  
a bit too hot to be in the Habitable  
Zone.

Along with Kepler-16, we now  
have 3 transiting circumbinary  
planet systems.

Firmly establishes new class of  
planetary systems.

Millions expected in our Galaxy.



*“Transiting circumbinary planets Kepler-34 b and Kepler-35 b”*

online at:

<http://dx.doi.org/10.1038/nature10768>

(\*) Kepler-34 b much more like Tatooine!

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artwork, slides, available at

<http://sdsu.edu/kepler>