BOSTON UNIVERSITY

Boston University College of Arts & Sciences
Center for Space Physics

2018 - 2019 SPACE PHYSICS SEMINAR SERIES

Heliophysics of Exoplanets and Star-planet Interaction

The discovery of close-orbit exoplanets, which do not exist in our solar system, introduces a new and interesting regime of parameter space to study space plasma physics. In particular, it introduce new regime at which the interaction between the planetary upper atmosphere interacts with the surrounding space environment, which is more extreme due to the close proximity of the planet to the star. Moreover, some of the planets may reside within the stellar Alfven point, allowing direct interaction between the planet and the stellar corona. In my talk, I will review the consequences of this new physics problem, and will highlight the potential impact on the stars, planets, and the potential observables of such star-planet interaction.

Thursday, February 7th
4:00 - 5:00 p.m.
725 Commonwealth Avenue | Room 502

Ofer Cohen
UMASS Lowell