Boston University College of Arts & Sciences Center for Space Physics

2022—2023 SPACE PHYSICS SEMINAR SERIES

The science of the large scale heliosphere and the missions that made it possible



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The exploration of interplanetary space and our sun's astrosphere, the heliosphere, has made a big leap over the past two decades, due to the pathbreaking observations of the two Voyager spacecraft, launched more than 45 years ago, being the only missions to date that have transcended through the boundaries of our solar bubble (now surveying through interstellar space). The Voyagers together with Cassini (in orbit around

Saturn; mission end: 15-Sep.-2017) have made substantial discoveries and posed new and exciting questions about the interactions of the heliosphere with the VLISM.

In this talk I will provide a brief overview of the findings from the Cassini and Voyager missions since the Voyagers crossed the TS, following their survey through the heliosheath and their respective crossings from the HP, out to the VLISM. The combined in-situ ions and remotely sensed ENAs are being used within the SHIELD DRIVE Science Center (BU) to develop a "digital twin" of the Heliosphere and also guide the requirements for the particle and fields measurements from the future Interstellar Probe mission.



Thursday, Februrary 9th 4:00-5:00 p.m. CAS 502

Konstantinos Dialynas Academy of Athens