The background features a large, detailed view of the Moon's surface on the left, showing numerous craters and lunar maria. On the right, the BepiColombo spacecraft is shown in orbit, with its solar panels extended and a blue light emanating from its instruments.

Characterisation of the Radiation Environment in the Inner Solar System from ESA's BepiColombo Observations



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS



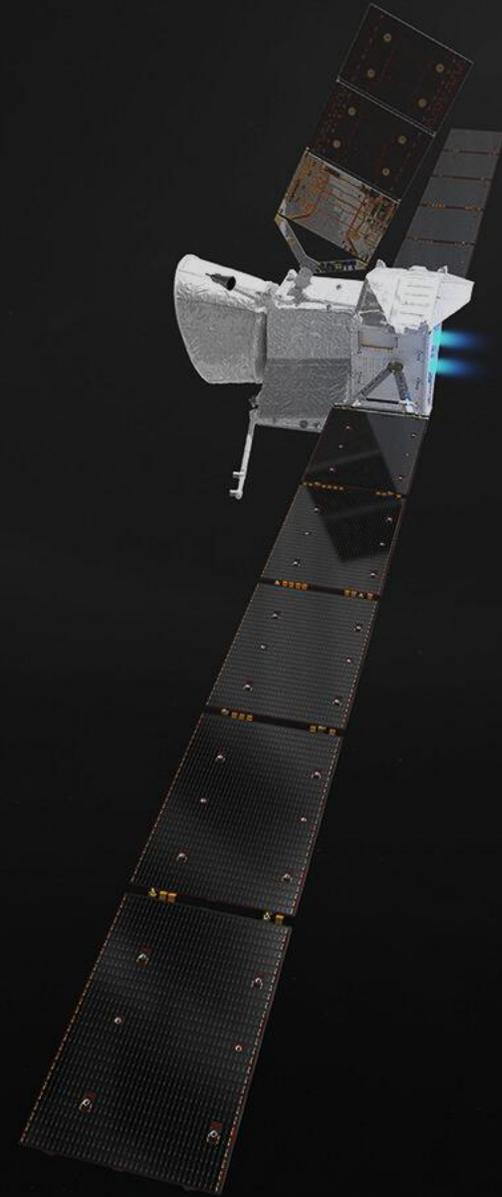
TÉCNICO
UNIVERSIDADE
DE LISBOA

Author: Inês Rosa

Supervisors: António Gomes
Marco Pinto

Total Ionising Dose, TID

- TID measures the cumulative energy deposited by ionising radiation in a material over time

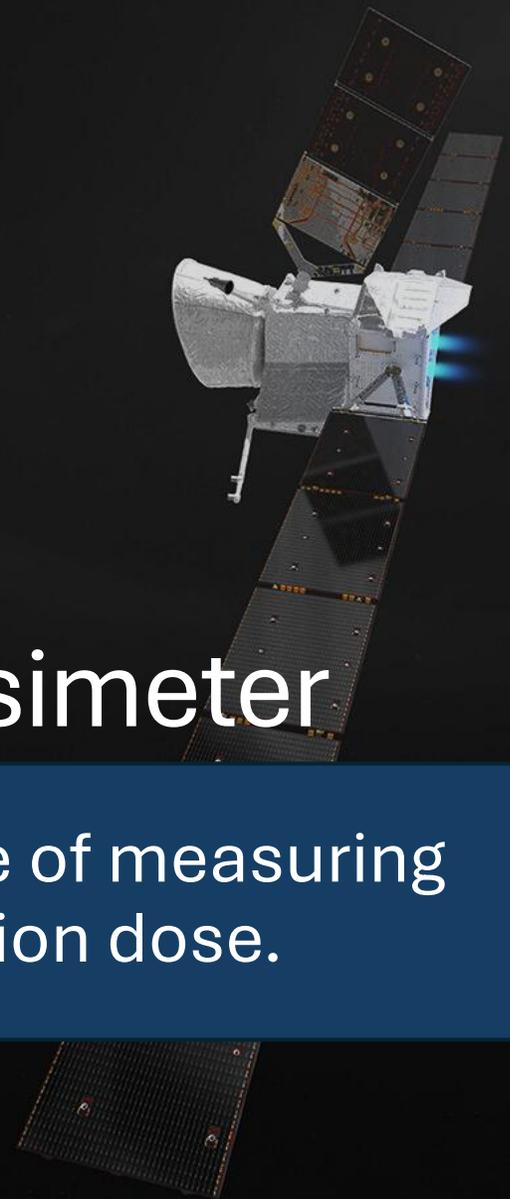


Total Ionising Dose, TID

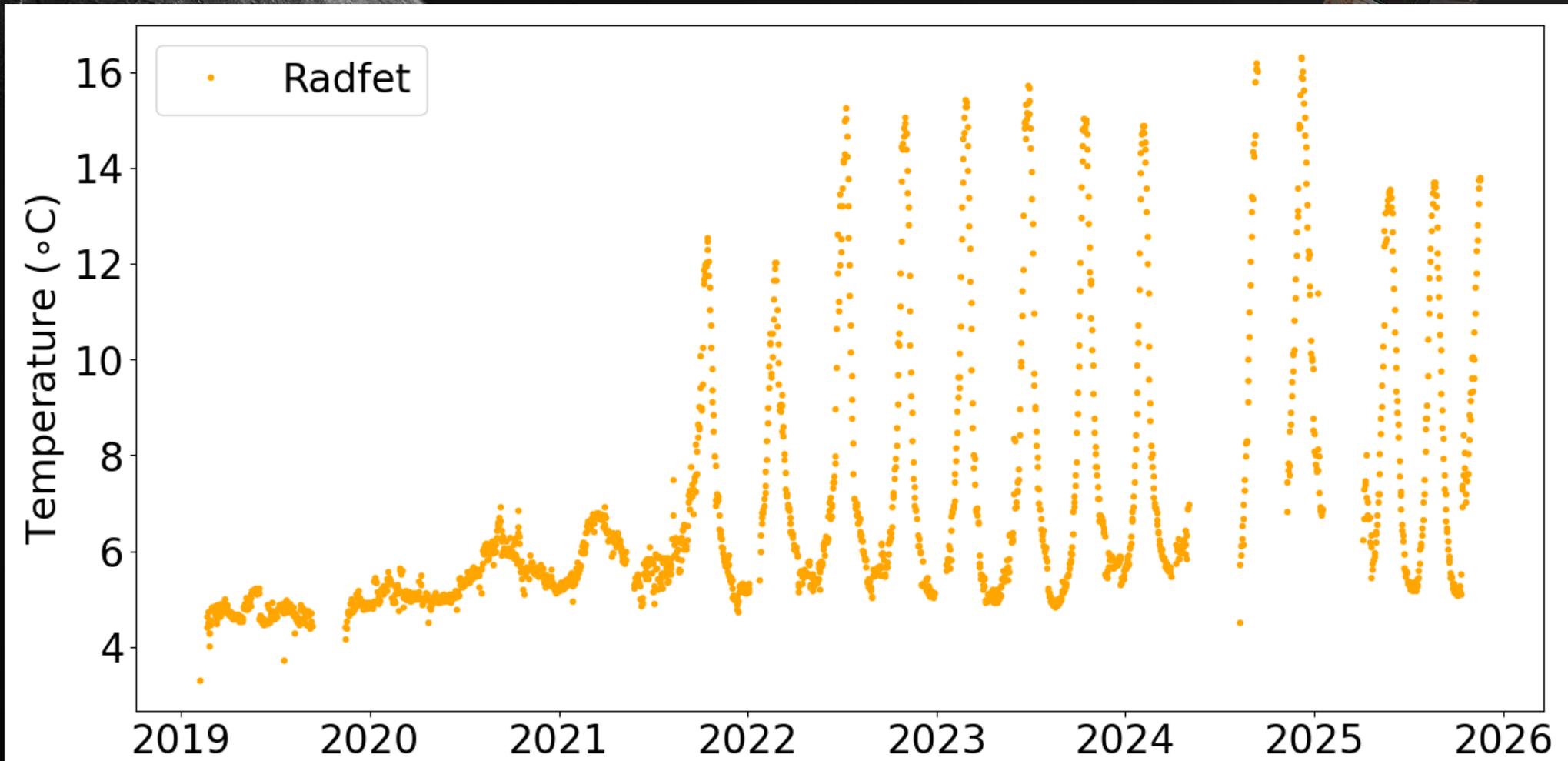
- TID measures the cumulative energy deposited by ionising radiation in a material over time.

RADFET Dosimeter

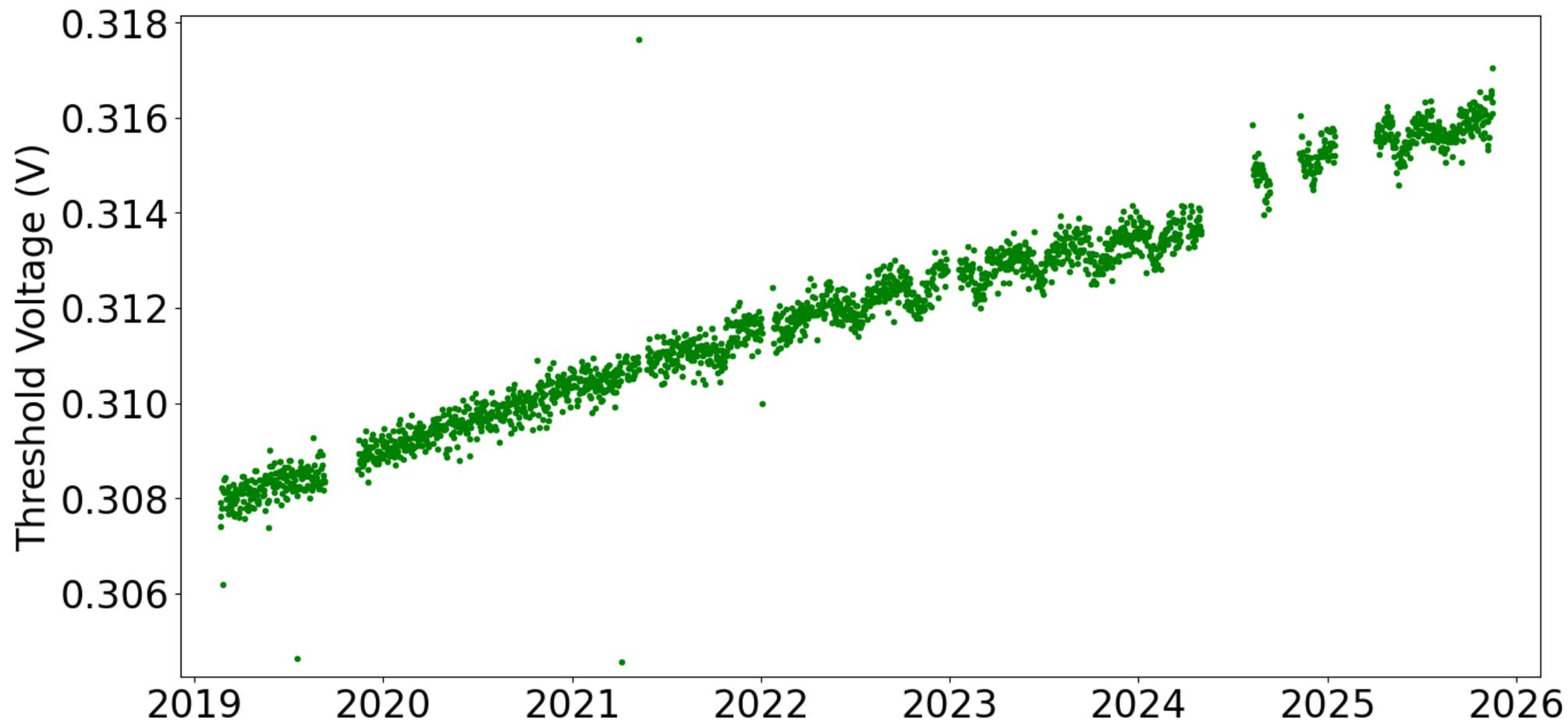
- A device capable of measuring integrated radiation dose.



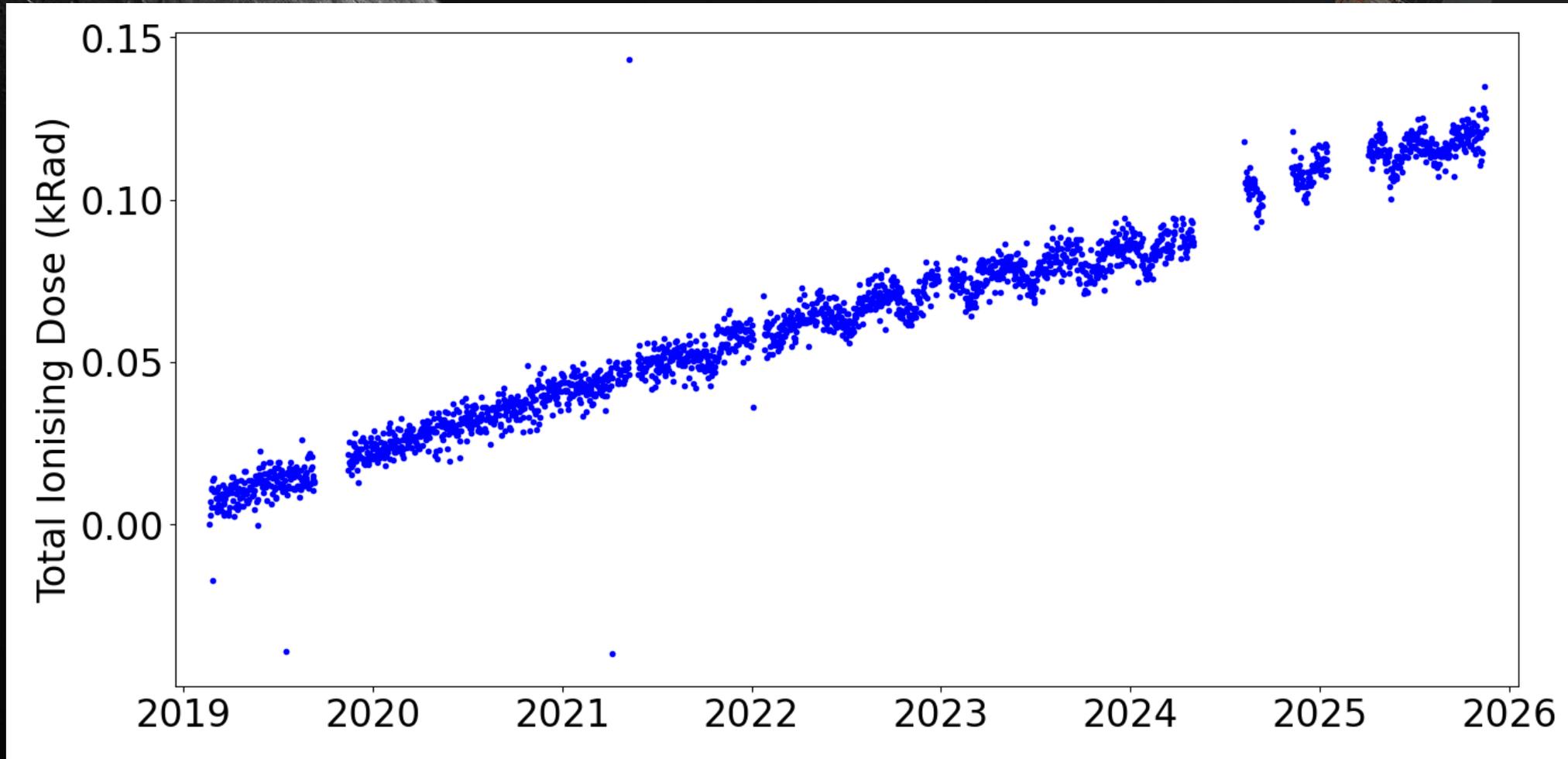
Temperature variation in the RADFET



RADFET's Threshold Voltage



Conversion from Voltage to TID – 1st approach



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