



**Dr. Cíntia da Costa** (*Pontifical Catholic University, Rio de Janeiro, Brazil*)

I hold a Ph.D. in Physics (condensed matter) from the Pontifical Catholic University of Rio de Janeiro, in Brazil; with a thesis defended in September of 2021. Since under graduation, I have been working on radiation effects induced in solid organic materials and astrophysical ices by keV and MeV ions, and keV electrons. The radiation processing was quantified by Fourier Transform Infrared spectroscopy (FTIR). I have a general knowledge of working with different particle radiation sources such as electron guns and a Van de Graaff ion accelerator, and Time-of-Flight Plasma Desorption Mass Spectrometry (PDMS-TOF) using the fission fragments of a  $^{252}\text{Cf}$  source to study secondary ion desorption from icy samples.