



Pablo Ramón Oliveira: In the last three years, I was working at the Pontifical Catholic University of Rio de Janeiro, Brazil, realizing my PhD research. My research interests lie at the intersection of material science (particularly, cluster formation) and astrochemistry (particularly, processing of astrophysical ices). A bit more in detail, my research contributions have been to understand processes that occur during energetic ion irradiation of Astrophysical ices relevant for solar system surfaces and cosmic dust grains in the interstellar medium, with the focus on the emission of secondary ions formed by heavy ion bombardment on these surfaces. This research gives us information about the physical processes of energy transfer and projectile momentum to the substrate, and, even more interesting, from an astrochemical point of view, about the formation, evolution, and sputtering of molecular clusters in several Astrophysical environments.