

CMM PDE Seminar

Speaker: Satoshi Tanaka (Tohoku University, Japan)

Title: Existence and multiplicity of positive solutions to the scalar-field equation on large annuli in the three-dimensional sphere.

Abstract: In this talk, we consider the Dirichlet problem for the scalar-field equation in a large annulus in the three-dimensional sphere. We obtain the existence, uniqueness, and multiplicity results of the positive solutions depending only on the latitude. This is joint work with Noaki Shioji (Yokohama National University) and Kohtaro Watanabe (National Defense Academy).

To be held in person at **Sala de Seminarios John Von Neumann, 7th floor**, Beauchef 851, and online via zoom:

<https://uchile.zoom.us/j/97687856555?pwd=MkZYZWpEY0YwUTBHT3ROK29ob1JYdz09>

Tuesday, October 25, 2022 at 12 Santiago time

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<https://eventos.cmm.uchile.cl/pdeseminar/>

