



SEMINARIOS ONLINE Mi 2.06.2021 | 15:30 horas

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## The Problem of Looking at hidden things

Seeing things is often complicated enough, especially if they are far away and/or small. But if there is an obstacle between you and the object you want to image, things get even harder. If all light is absorbed or reflected, there is no signal to measure, and the problem is impossible. But in many cases what prevents us from seeing is scattering (e.g. scattering, not absorption, is the reason we can not see inside our own bodies), and while scattering can be an extremely complicated phenomenon, it is also completely deterministic, meaning that the information we are looking for is there, just hidden in the complexity.

In this seminar I will discuss what scattering does to the images we would like to see, and how different scattering regimes allow to retrieve different amounts of useful information.

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