

**Lundi 4 juillet 2022 à 11h (IAS, bâtiment 121, salle 1-2-3)**

**Coronal Heating: A Coupled Multi-Scale Problem**

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Explaining why the outer atmosphere of the Sun and Sun-like stars is so hot – the famous coronal heating problem – has been one of the great challenges in space science. We now have a solid basic understanding, but important and consequential aspects are still uncertain. They are consequential because the variable EUV and X-ray emission from the Sun – a direct consequence of coronal heating – is an important driver of space weather at the Earth and other planets. I will review our present understanding of coronal heating, emphasizing that it involves an enormous range of spatial scales and fundamentally important couplings among these scales and among different parts of the solar atmosphere.