



Théorie conforme des champs et systèmes quantiques à plusieurs corps  
21 août – 9 septembre 2022

Conformal field theory and quantum many-body physics  
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## **Floquet CFTs and Conformal Cooling**

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In this talk, I will introduce an exactly solvable setup of periodically driven CFTs, and its application in quantum cooling when the system is initially prepared in a thermal state. We show how a subsystem of the driven CFT can be cooled down to zero temperature by studying analytically the time evolution of the reduced density matrix of the subsystem.