

1161-14-191 **Chiara Camere*** (chiara.camere@unimi.it). *Mirror Symmetry and Lagrangian Fibrations on Hyperkähler Manifolds.*

In this talk I will explain a generalization of a lattice-theoretical mirror symmetry, as known for $K3$ surfaces, to higher dimensional hyperkähler manifolds, and give an application to the study of Lagrangian fibrations. Then I will discuss an example in the case of fourfolds of $K3^{[2]}$ -type. Finally, if time allows, I will report on further developments about Lagrangian fibrations, joint work in progress with G. Saccà. (Received August 17, 2020)