

SEMINARIO DI GEOMETRIA

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Politecnico di Torino,
Dipartimento di Scienze Matematiche,
AULA 1D

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Involutions on the Hilbert scheme of two points coming
from special $K3$ surfaces

I will show how to use $K3$ surfaces with special geometry to construct non-symplectic involutions on the Hilbert scheme of two points on a $K3$ surface. More precisely I will consider $K3$ surfaces with Picard number two that admits several embeddings as smooth quartics in the 3-dimensional complex projective space and $K3$ surfaces with several nodes. I will then show that the induced involutions on the Hilbert scheme have strong connections to the famous Beauville involution. This is a joint work with S. Boissiere and A. Cattaneo.