

## SEMINARIO DI GEOMETRIA

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Politecnico di Torino,  
Dipartimento di Scienze Matematiche,  
**Online**

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### H-instanton bundles on polarized threefolds

Instanton bundles on  $\mathbb{P}^3$  are stable vector bundles satisfying a certain vanishing in cohomology and their importance arose from theoretical physics. In the past years there have been several generalizations of these vector bundles to other Fano threefolds. In this talk we propose the new notion of H-instanton bundle on any smooth polarized threefold. After a brief discussion on the Fano and Veronese case, we deal with the existence of H-instanton bundles on rational normal scrolls of dimension three. This is joint work with Francesco Malaspina.