

# Séminaire du laboratoire PIMM

Vendredi 7 mai 2021 à 13h30 sur Teams

**Dr. Maria Laura DE BELLIS**

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présentera dans le cadre du séminaire ses travaux intitulés :

## **Serendipity virtual element formulation for nonlinear elasticity**

The Serendipity Virtual Elements are extended to the cases of compressible and incompressible hyper-elastic materials in 2D. Second order polynomials are adopted for the projection involved in the consistency part, while different stabilization techniques are proposed and critically compared with each other. Various numerical examples, involving very severe loading conditions, indicate that the proposed elements are very accurate and robust with respect to distortion.