

# Structural integrity under extreme load



## Topic: Hydrogen

•**TITLE:** Mechanical behaviour of type 4 Hydrogen pressure vessel under random extreme loadings.

•**RESEARCH BACKGROUND:** In real time the structures could be severely damaged under random and unexpected loadings.

•**RESEARCH ACTIVITIES:**

1. Study the capability of modelling methods for random extreme loadings.
2. Develop a numerical model to investigate the mechanical behaviour of type 4 hydrogen pressure vessel.
3. Study the structural response of pressure vessel under random extreme loadings.

•**METHODOLOGY:** Numerical

•**DURATION:** 9 months

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