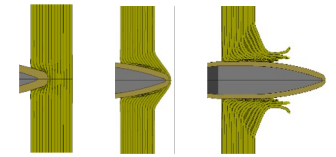


Structural integrity under extreme load

Topic: In-depth investigations on composite materials



•**TITLE:** Investigation on the interface of composite materials (with and without nanofillers)

•**RESEARCH BACKGROUND:**

•Interface of composite materials is generally believed as the weak point of the whole structures, which is between layers and fibre/matrix. However, adding nanofillers may provide a good solution for it. The work is planned to investigate this issue.

•**RESEARCH ACTIVITIES:**

1. Study capability of different modelling strategies on interface replication
2. Consider the effect of nanofillers on the interface of fibre-reinforced composites
3. Develop a reliable modelling methods on interface of composites (optional)
4. Carry out experiments on interface of composites for further understanding its behaviours (optional)



•**METHODOLOGY:** Numerical – Programming – Experimental

•**DURATION:** 9 months

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