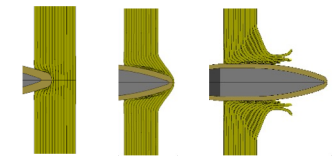


# Structural integrity under extreme load

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 (between layers of fibre/matrix ) is generally believed as the weak point of the whole assembly. However, adding nanofillers may provide a good solution for it. The work is planned to investigate this topic.



•**RESEARCH ACTIVITIES:**

1. Study capability of different modelling strategies on interface modelling
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. Introduce multifunctional properties for monitoring delamination of composites (optional)

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

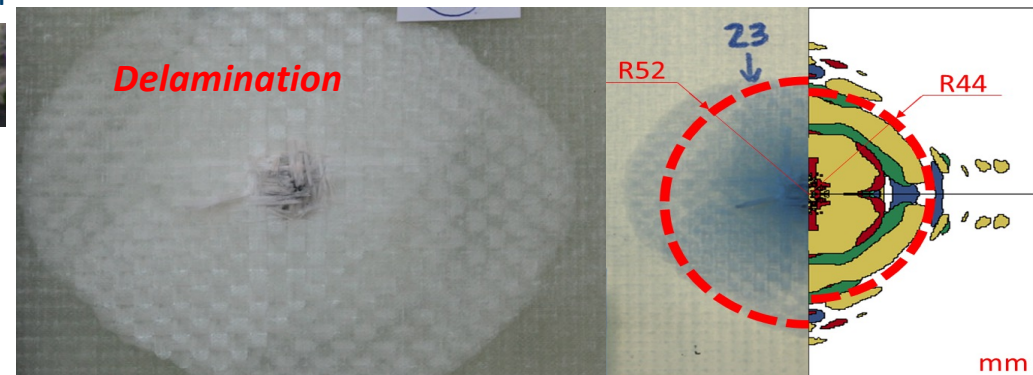
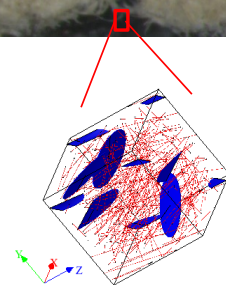
•**DURATION:** 9 months

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