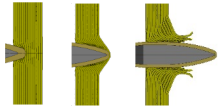


Structural integrity under extreme load



Topic: In-depth investigations on polymer materials

•**TITLE:** Strain rate effect and variability on different polymer materials

•**RESEARCH BACKGROUND:**

•Polymer materials are widely applied, even under extreme loading. Therefore, understanding the effect of strain rate on mechanical behaviour of different polymer materials is of interest.

•**RESEARCH ACTIVITIES:**

1. Perform material characterization tests under various strain rates
2. Establish strain-rate-dependent material model(s) for polymer materials
3. Investigate mechanical properties of polymer materials through numerical methodologies

•**METHODOLOGY:** Experimental – Numerical

•**DURATION:** 9 months

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•**POSSIBLE COLLABORATIONS:**

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Do you know how different we are?

