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On Improving Ballistic Limit of Bi-Layer Ceramic–Metal Armor

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Highlights:

The major highlights of the work include methods to enhance the ballistic performance of ceramic through experimental investigation and numerical analysis:

1. Experimentally demonstrating the methods of pre-stressing ceramic armor to demonstrate its effect on ballistic performance.
2. An experimental module of hybrid ceramic armor to achieve interface defeat.
3. Comprehensive numerical investigations using AUTODYN[®] to observe the axial confinement's (cover plates) effect on the SiC armor performance for normal and oblique (NATO 60°) against long rod projectile.

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