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Characterising primary fragment in debris cloud formed by hypervelocity impact of spherical stainless steel projectile on thin steel plate

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Highlights

- Studied debris cloud from hypervelocity impact of steel sphere on thin steel plate
- Adopted SPH technique and validated simulation model by experiment
- Analysed mass, velocity and exit angle of primary fragment in in-line debris cloud
- Proposed model for predicting primary fragment characteristics
- Compared model predictions with simulation and experimental data

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