

Figure 3. from Realistic On-the-fly Outcomes of Planetary Collisions: Machine Learning Applied to Simulations of Giant Impacts
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$$y = f(x)$$

OUTCOMES

1st & 2nd largest remnants

- **Mass**
- Orbital elements
- Rotation states
- Post-impact composition

Mass of the debris field

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IMPACT CONDITIONS

Mass of the target

Mass of the impactor

Impact angle

Impact velocity

Composition

Pre-impact rotation states

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