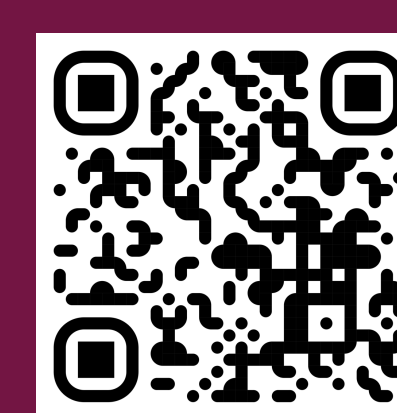




Few-Shot Physically-Aware Articulated Mesh Generation via Hierarchical Deformation



Project Page



Code

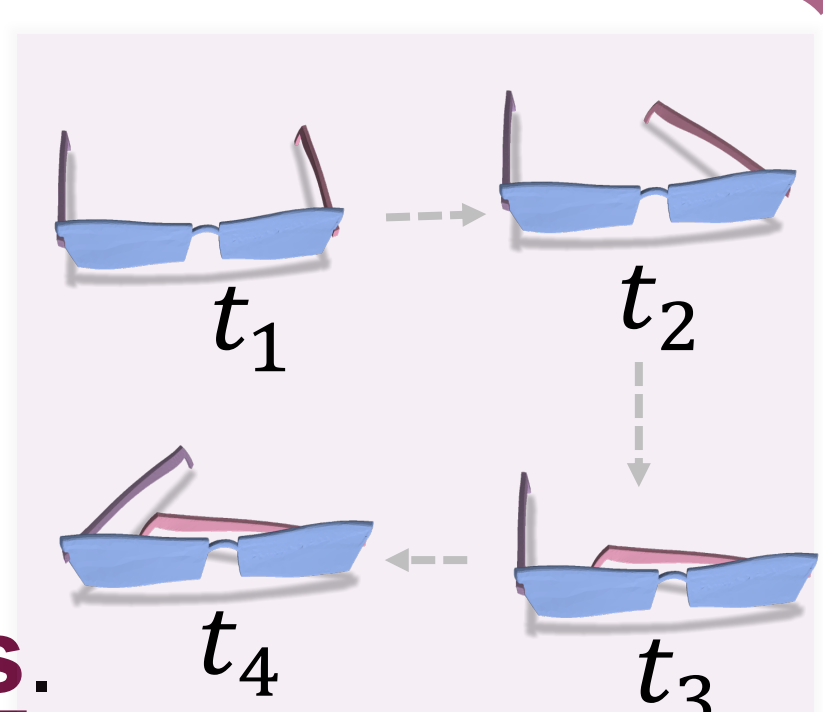


上海人工智能实验室
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Overview

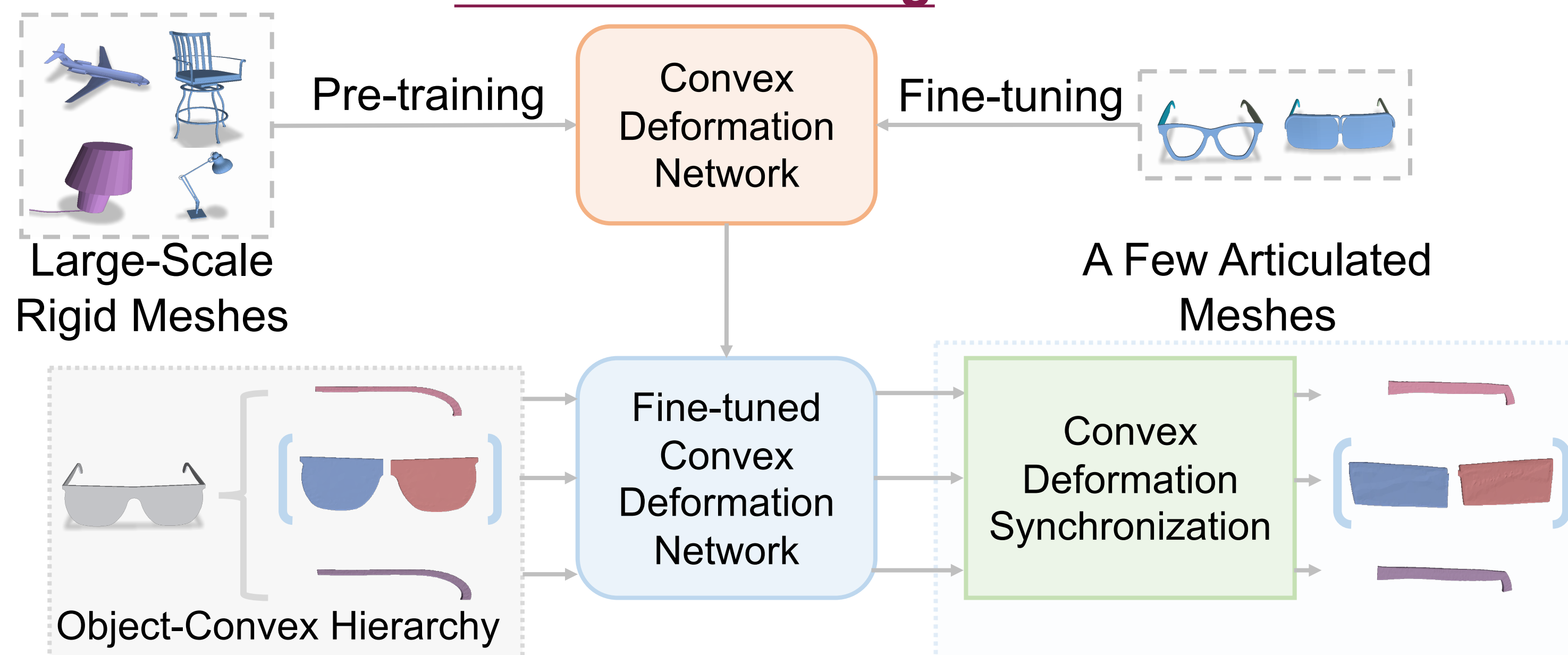
- **Articulated mesh** assets are always at a *small scale* despite their importance.
- We wish for a generative model that can produce **diverse** and **physically plausible** articulated meshes from only a few examples.



Challenges & Key Idea

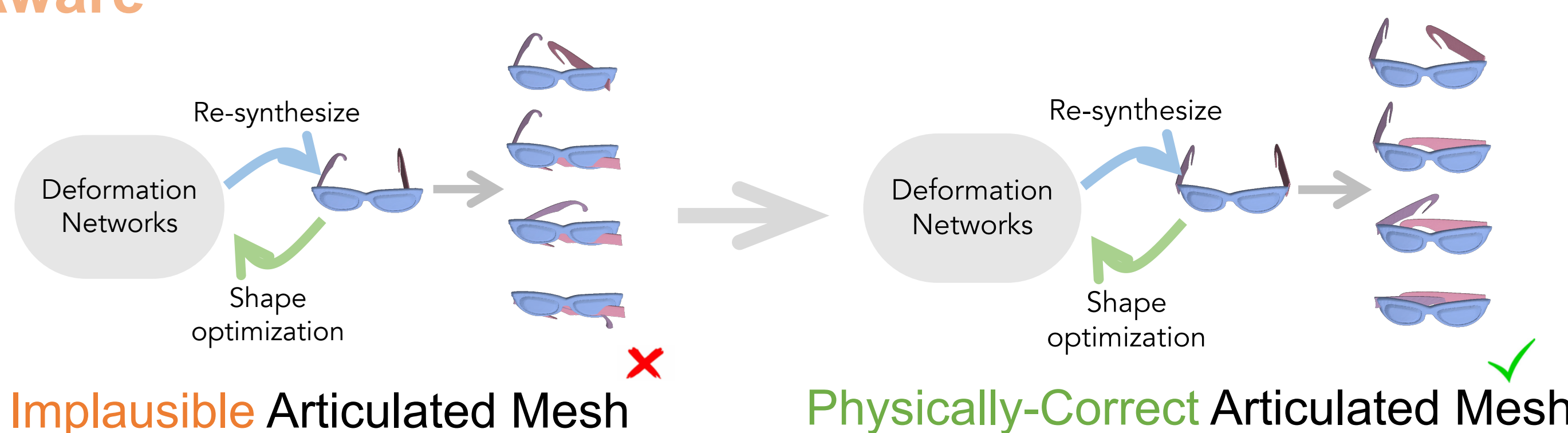
Few-shot

Hierarchical mesh deformation with **Transfer Learning**

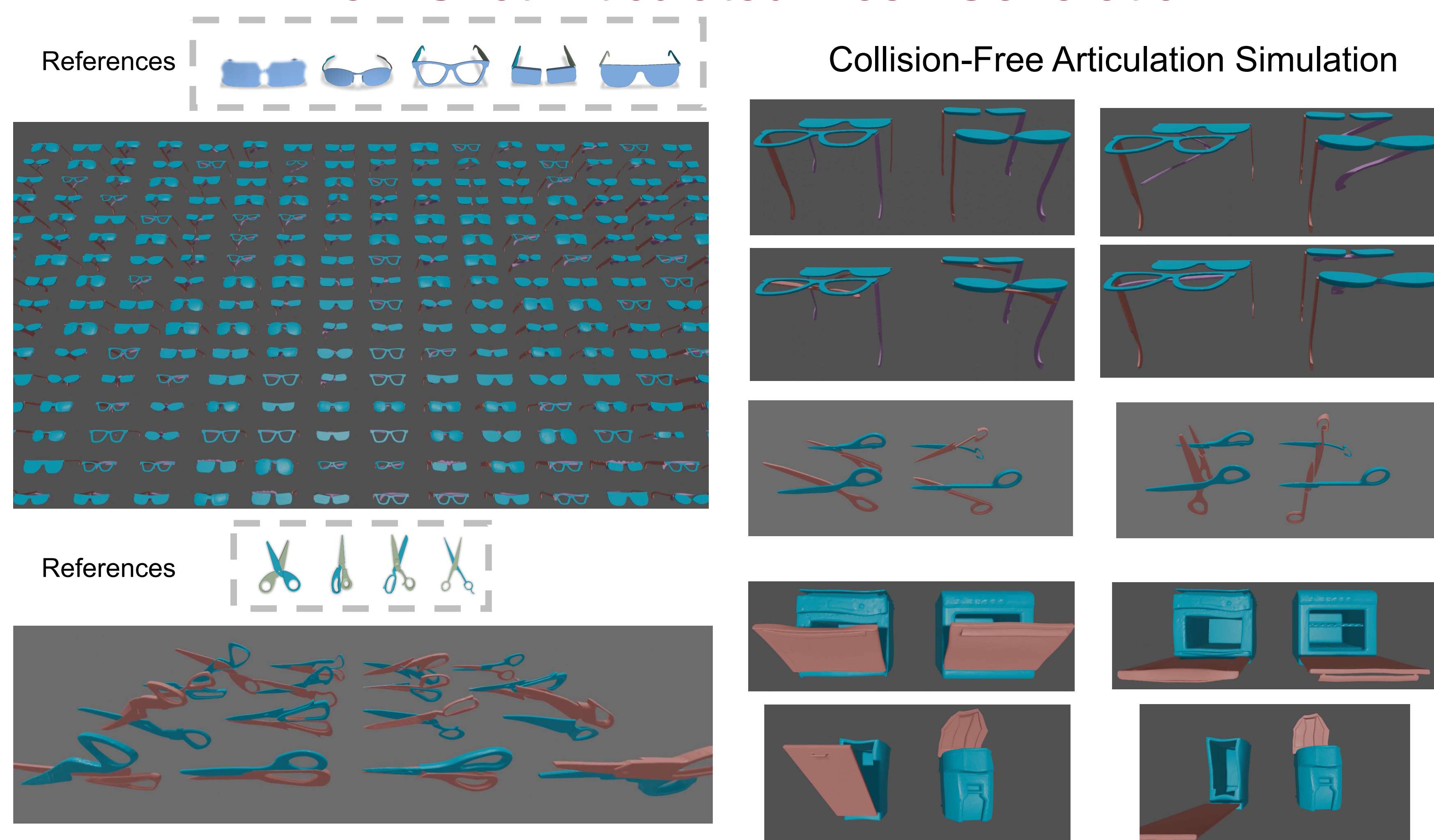


Physically-Aware

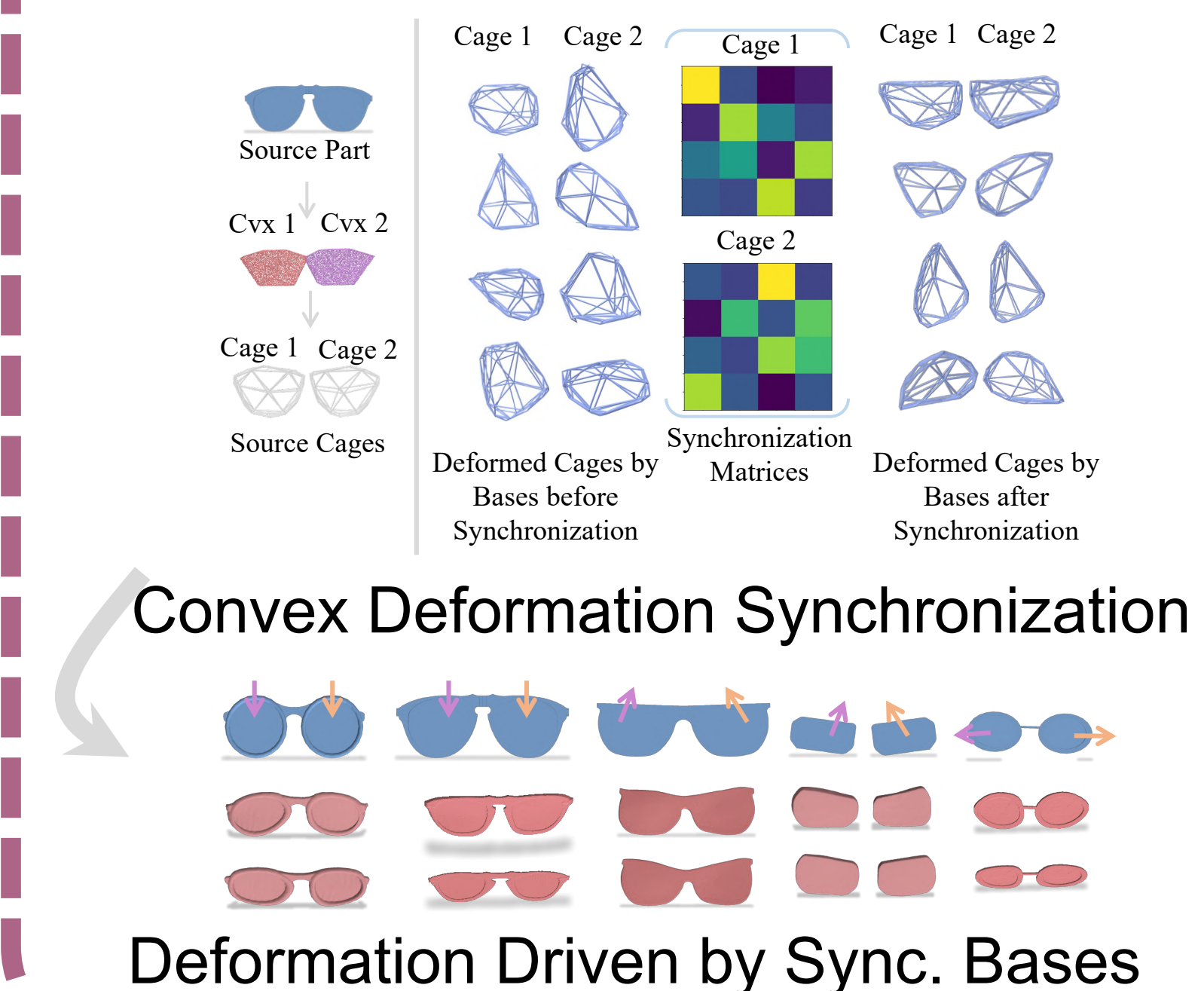
Physics-Aware Deformation Correction



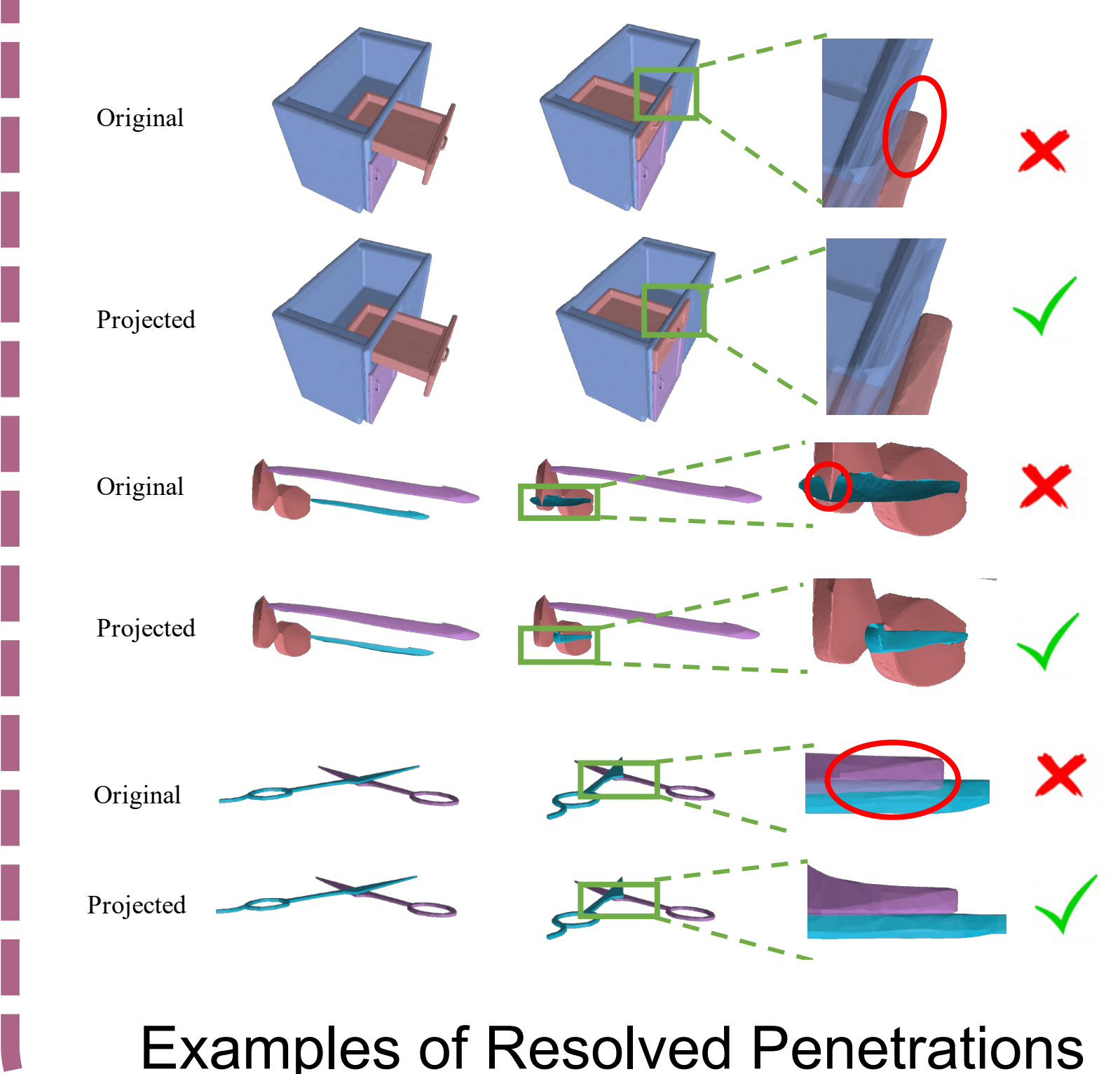
Few-Shot Articulated Mesh Generation



Synchronization



Physics-Aware Correction



Flexible and Scalable Deformation

