Stage 1

Stage 2

Pose-based Lifting Model 🔥

Multi-view video Frames

View 1

View V

2D Pose Detector ❄️

Multi-view 2D Pose Sequences

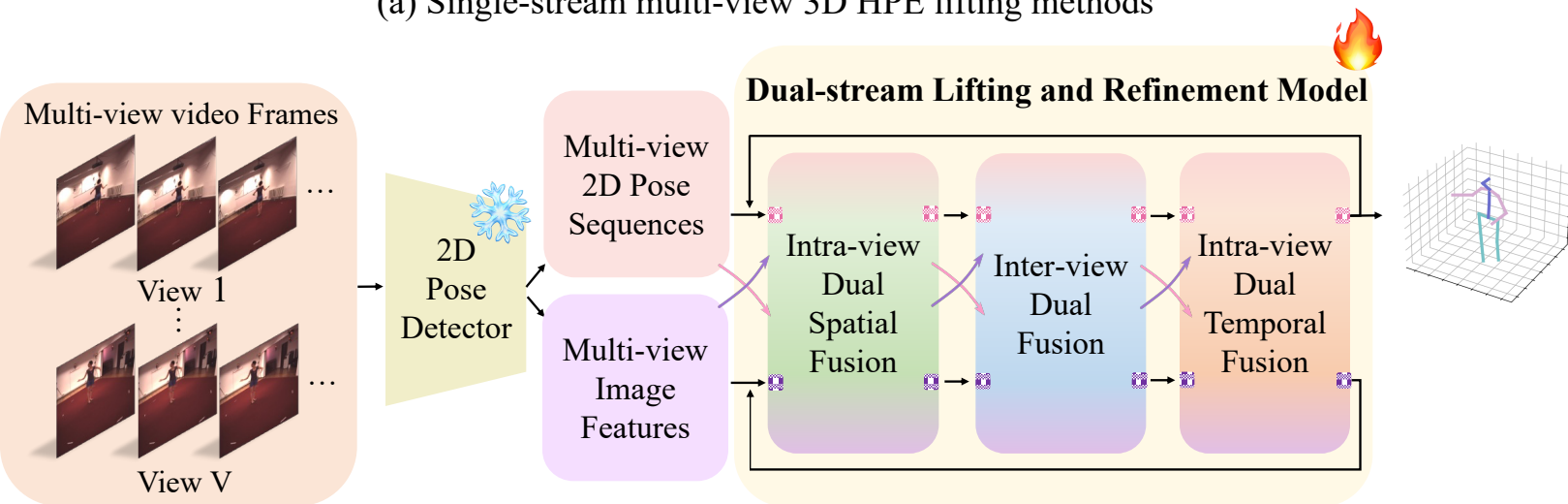Spatial Fusion View 1

Adjacent-view Fusion

Temporal Fusion

Spatial Fusion View 2

(a) Single-stream multi-view 3D HPE lifting methods

Dual-stream Lifting and Refinement Model 🔥

Multi-view video Frames

View 1

View V

2D Pose Detector ❄️

Multi-view 2D Pose Sequences

Multi-view Image Features

Intra-view Dual Spatial Fusion

Inter-view Dual Fusion

Intra-view Dual Temporal Fusion

(b) Our dual-stream multi-view 3D HPE lifting and refinement method