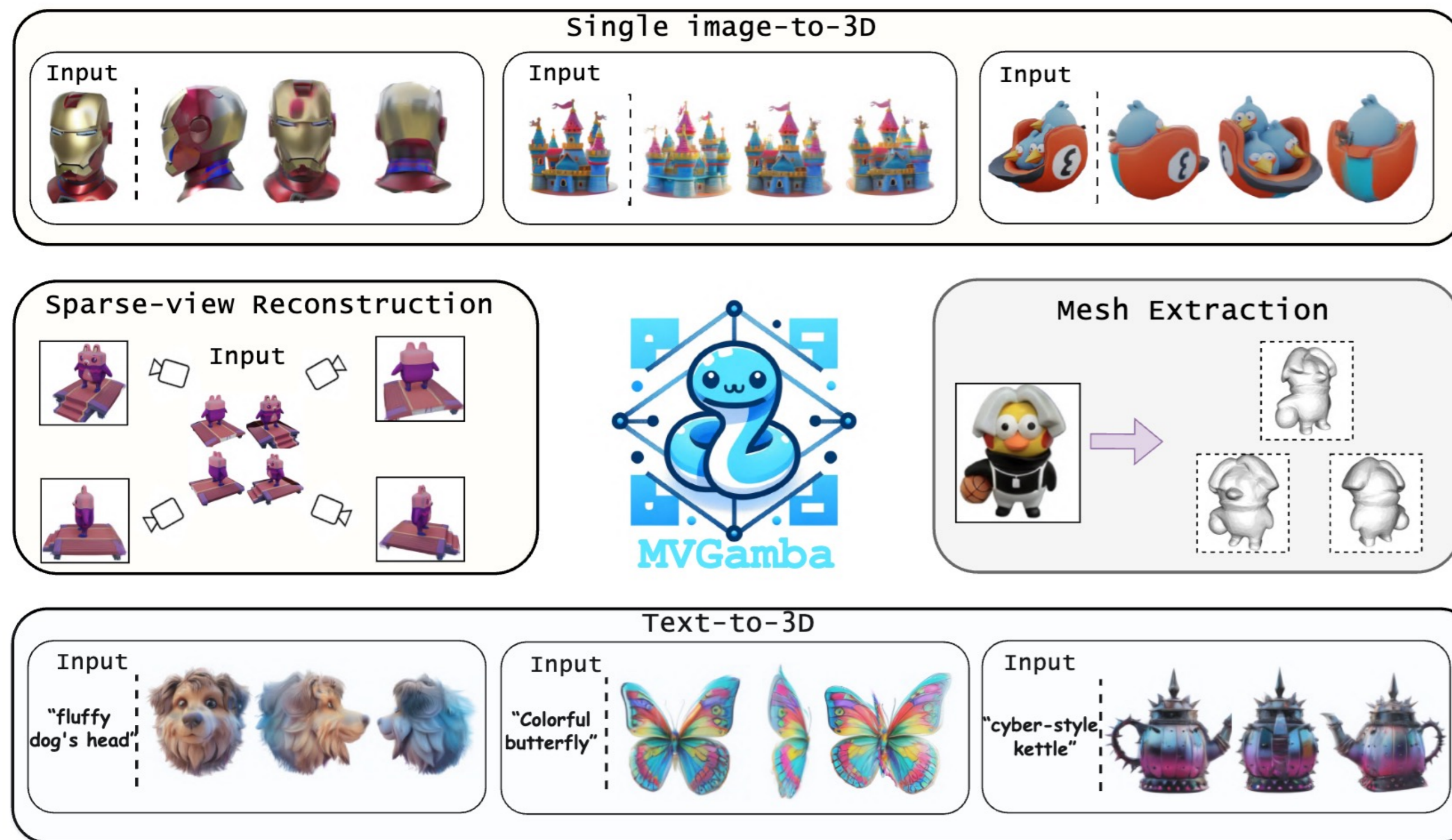
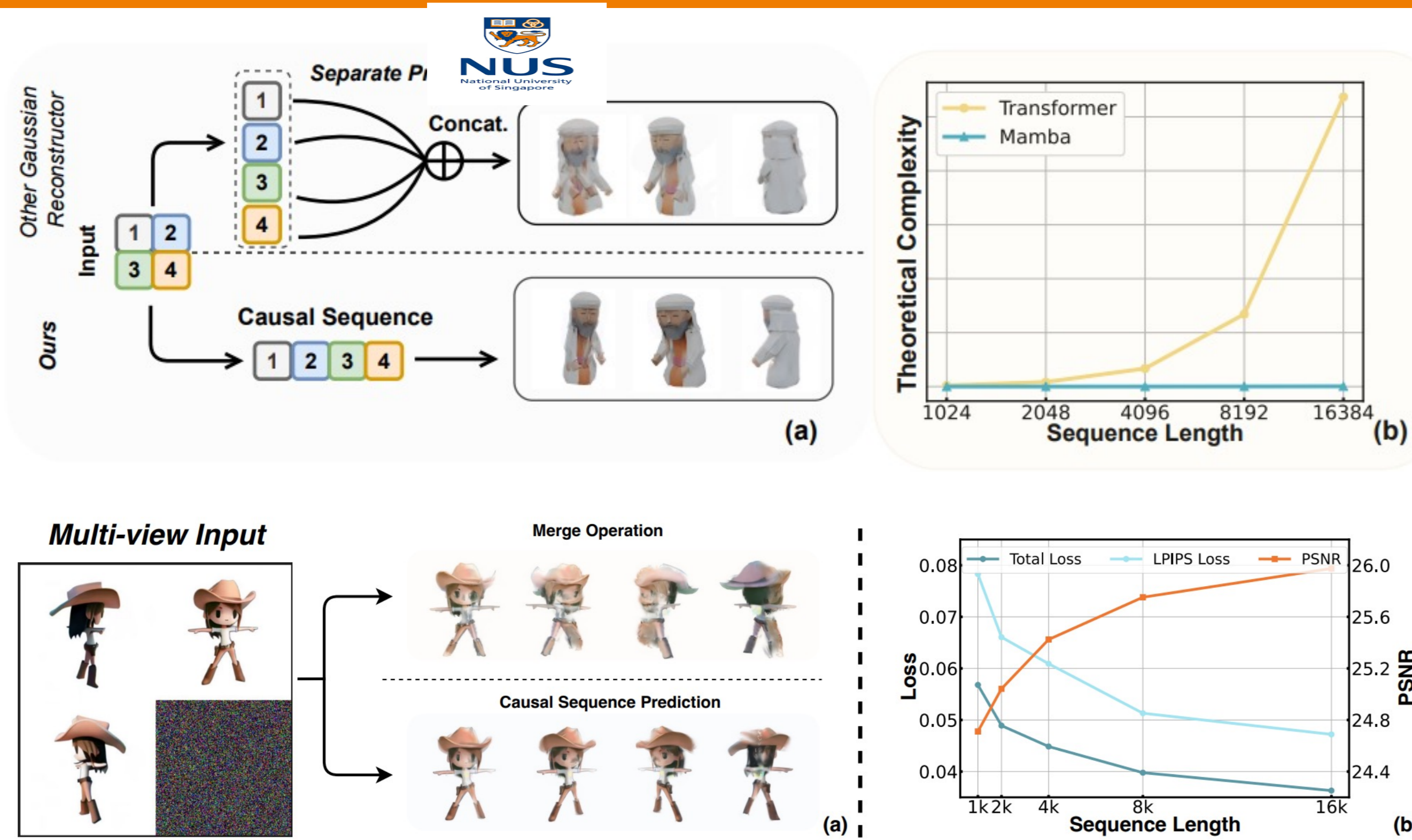


## MVGamba



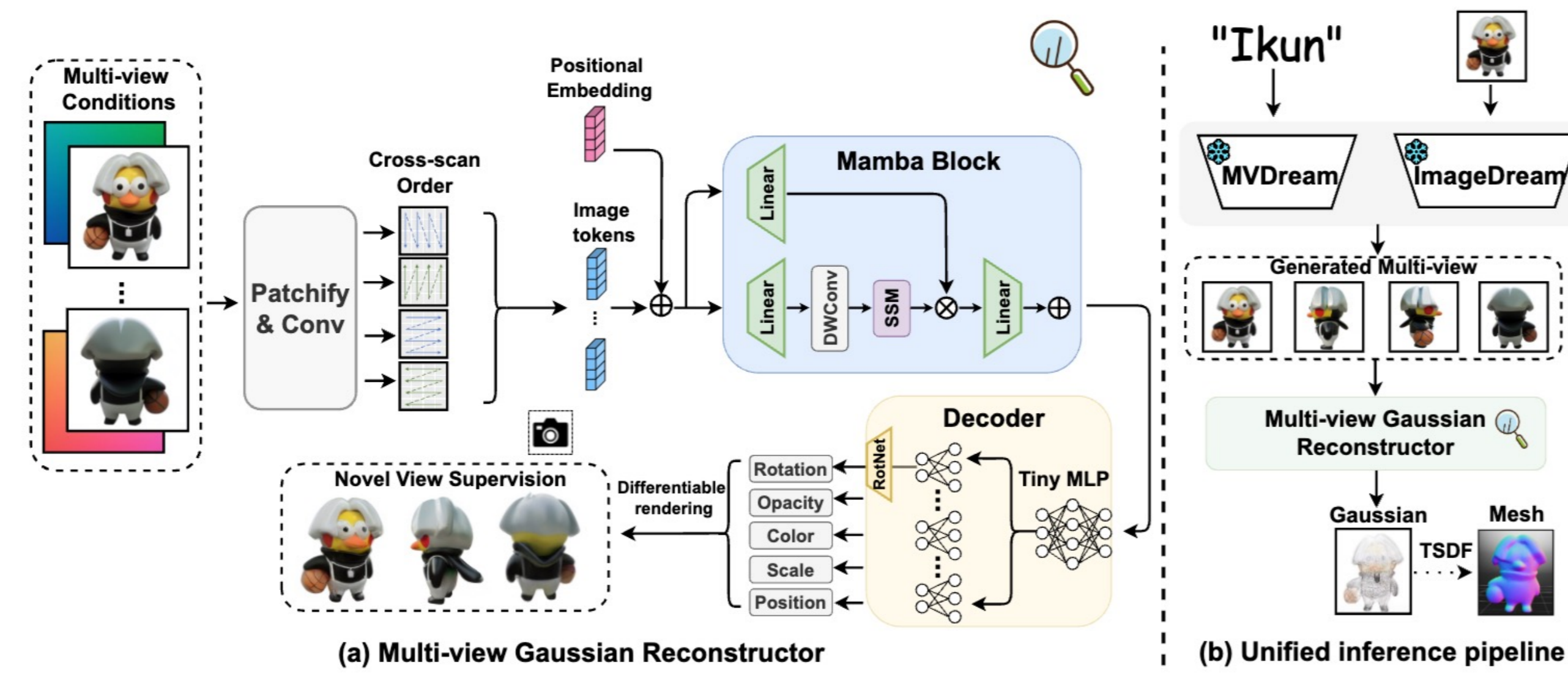
## Motivation



1. Previous works inevitably compromise the integrity of *multi-view information propagation* to manage *computational costs*.
2. The imperfect generation of multi-view images might be unavoidable bottom neck.
3. The computationally efficiency as well as Gaussian representation is far from perfect.

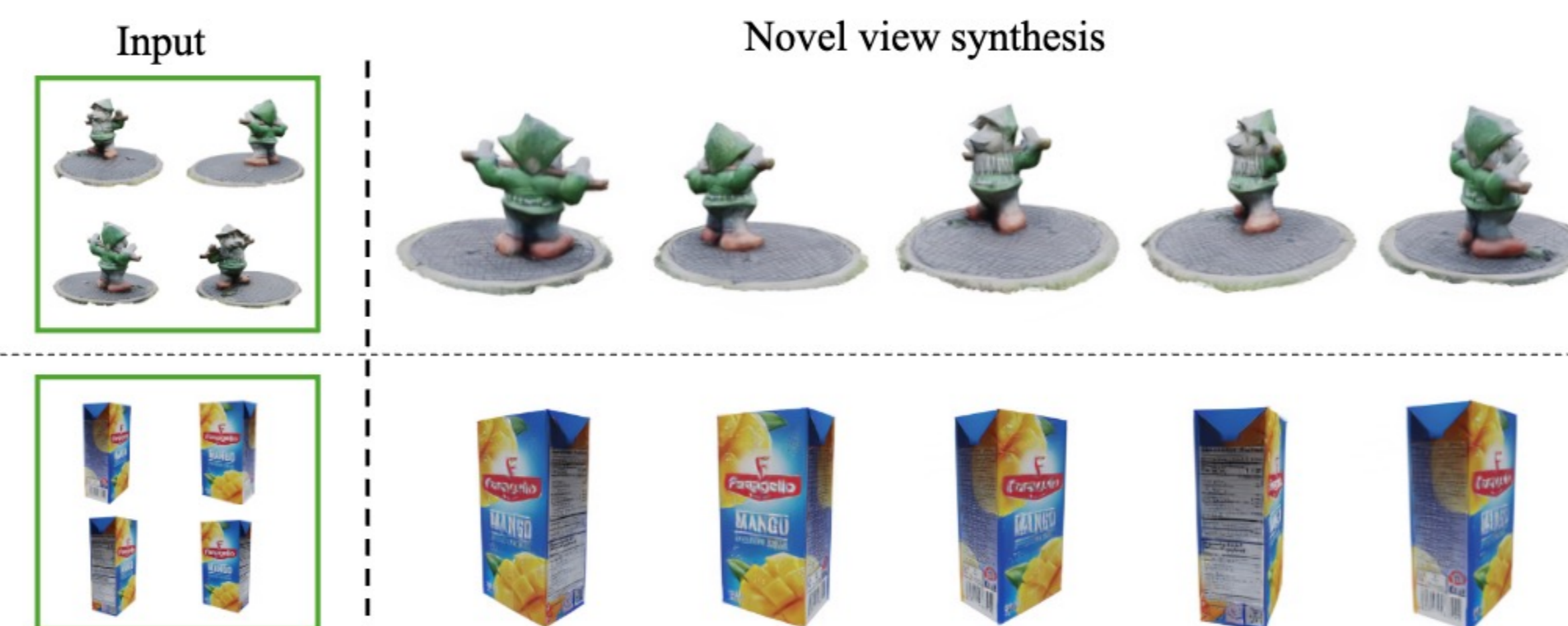
**The crux is to generate the integrity of multi-view information while efficiently generating a sufficiently long sequence of Gaussians.**

## Methods



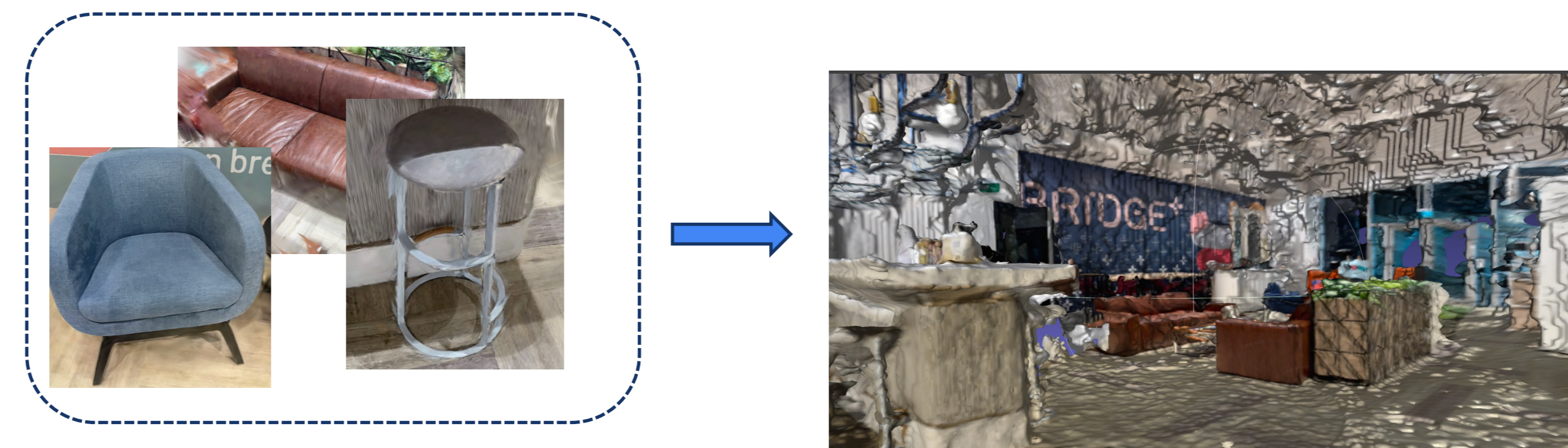
## Experiment

### Sparse-view Reconstruction



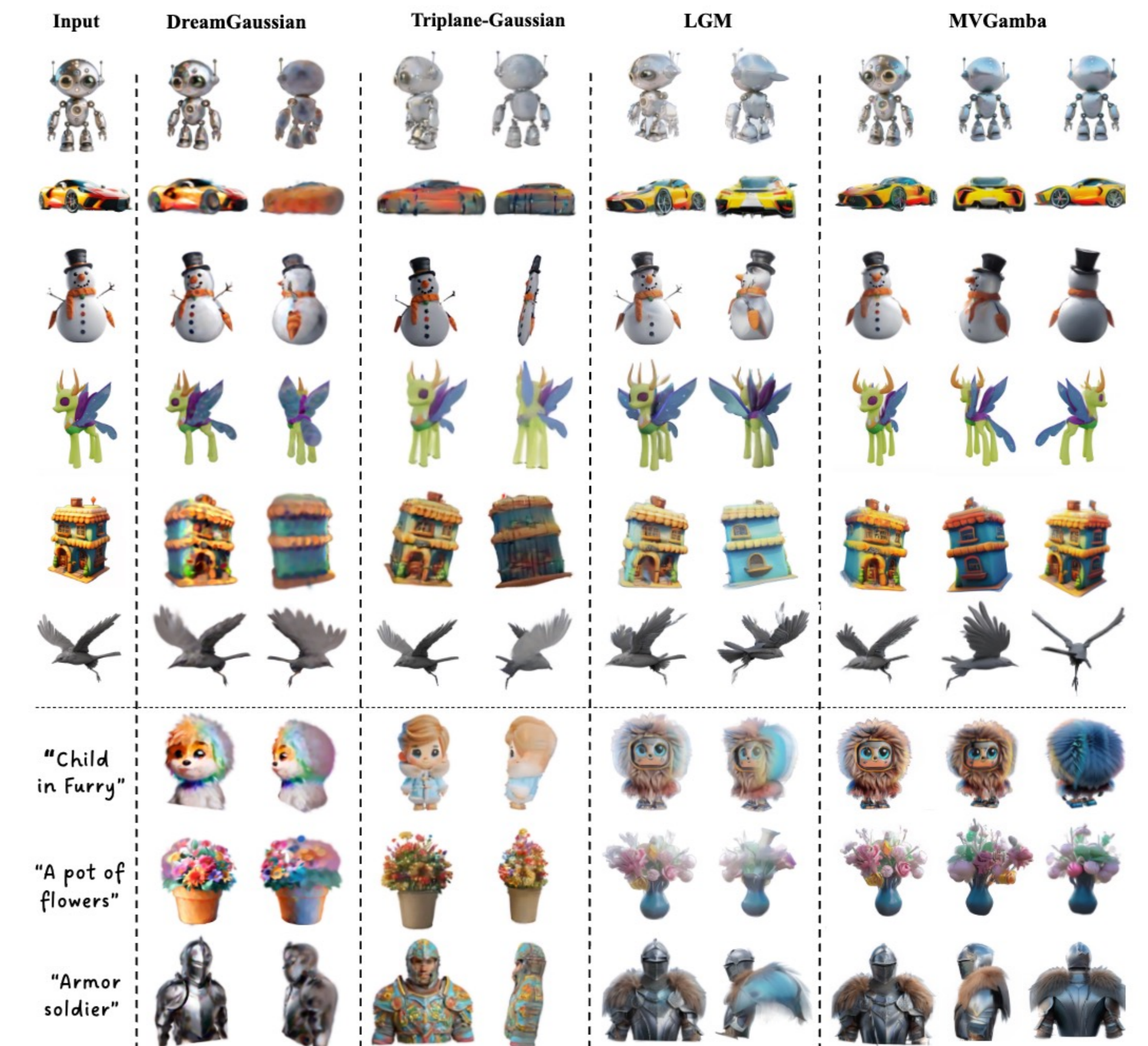
Method	#views	PSNR↑	LPIPS↓	SSIM↑	INF. Time↓	CD↓	VIoU↑
SparseGS [81]	16	22.19	0.162	0.775	34s	-	-
SparseNeuS [80]	16	23.17	0.130	0.814	6s	0.0566	0.3479
LGM [19]	4	24.20	0.112	0.845	0.07s	0.0198	0.4410
MVGamba	4	<b>26.25</b>	<b>0.069</b>	<b>0.881</b>	<b>0.03s</b>	<b>0.0132</b>	<b>0.4829</b>

### Engine-friendly Interaction



## Experiment

### Image / Text-to-3D Generation



### Normal Map Generation

