

Fast and compact?
Cool. But your
quality is poor.
Let me school you!



Multi-step big model

I wish 🙄 but ...
We **don't share the same VAE latent and resolution...**



One-step small model

Existing Distillation

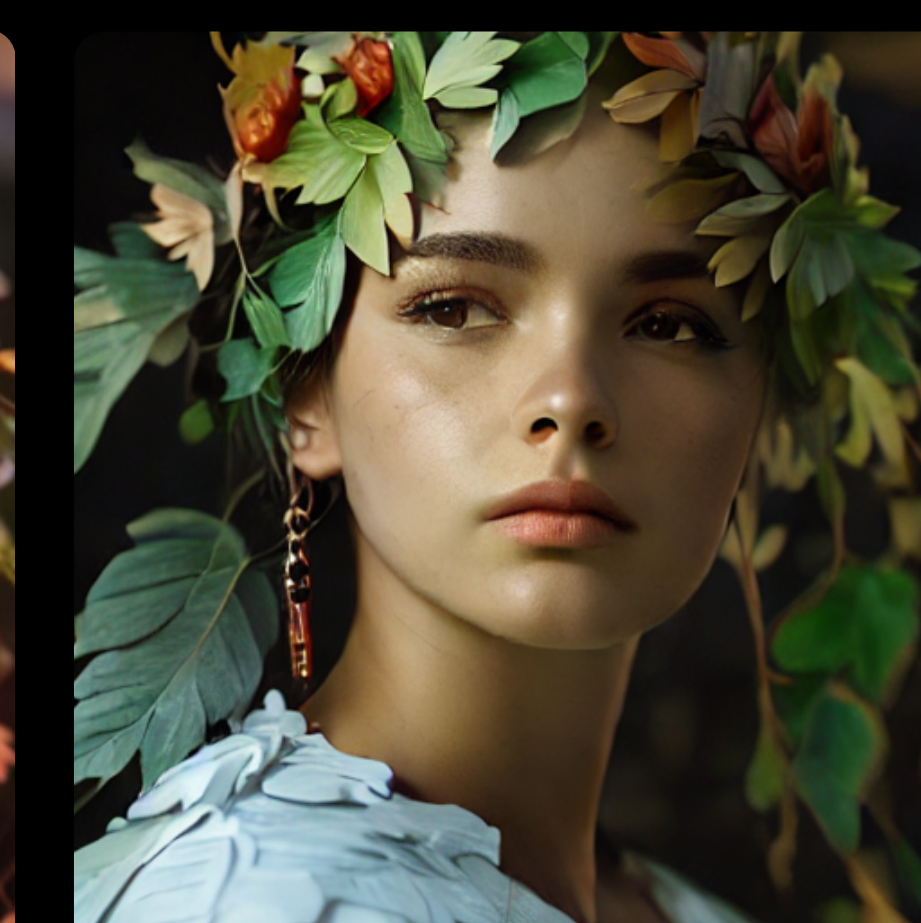


SD 1.5 DMD2
HPSv3: 5.37

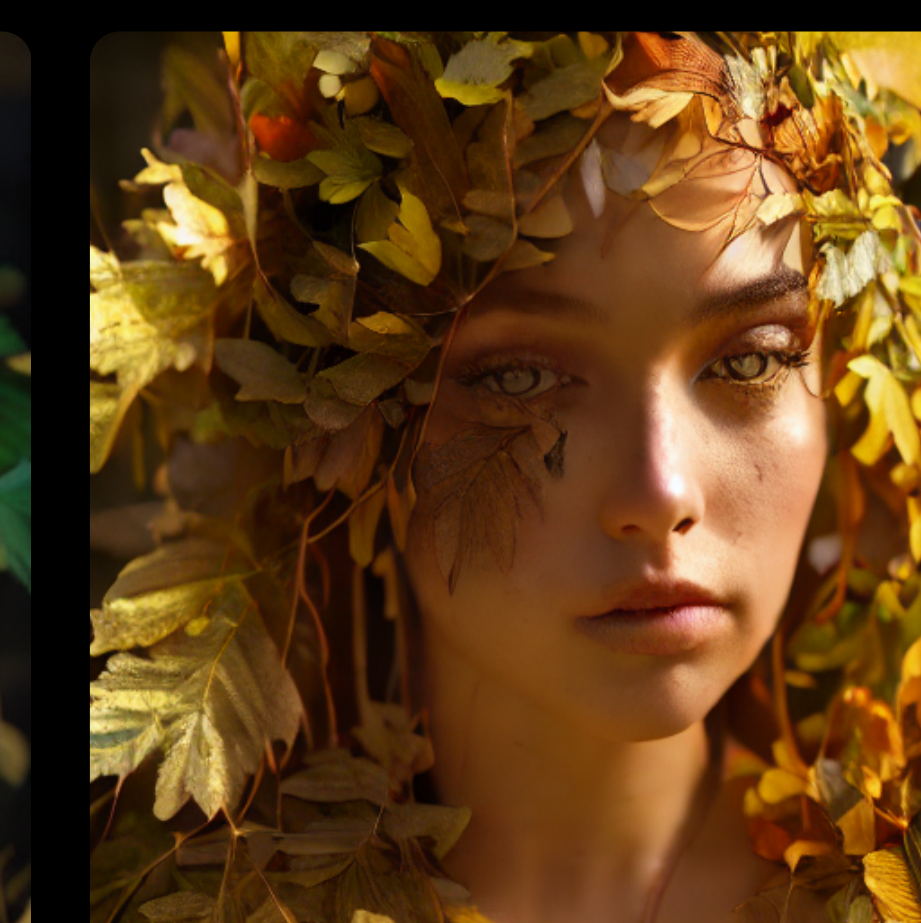
Cross-Space Distillation



+ SDXL
HPSv3: 9.04



+ Kolors
9.33



+ PixArt Sigma
8.65



+ SD 3.5 Medium
9.42



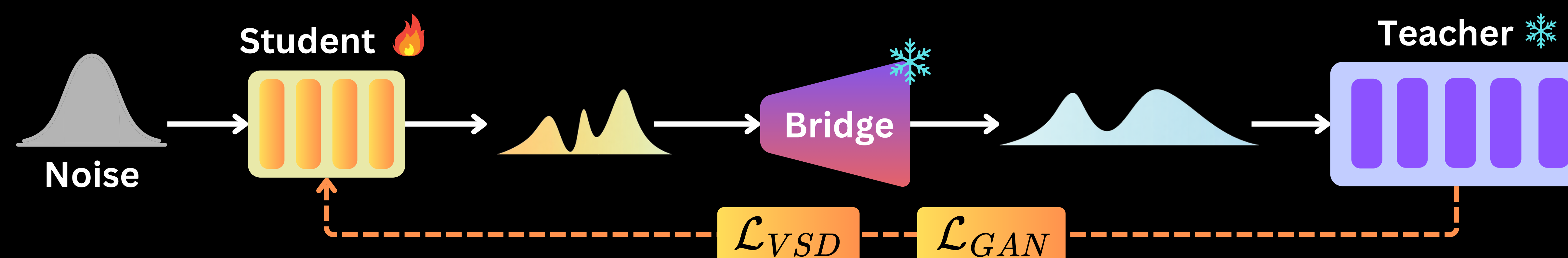
+ FLUX.2 [klein]
9.49

"A woman with an elaborate crown made of vibrant flowers stands gracefully against a soft background."

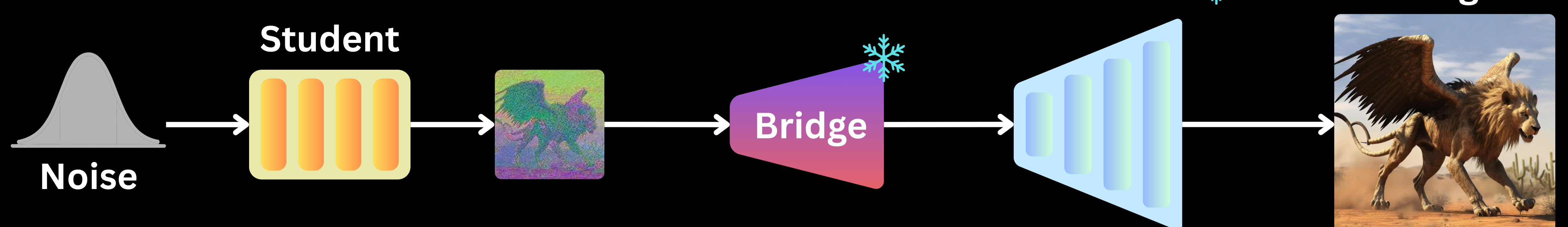
✓ Learns from massive modern teachers

✓ Supports distillation between models with different VAE space and resolution

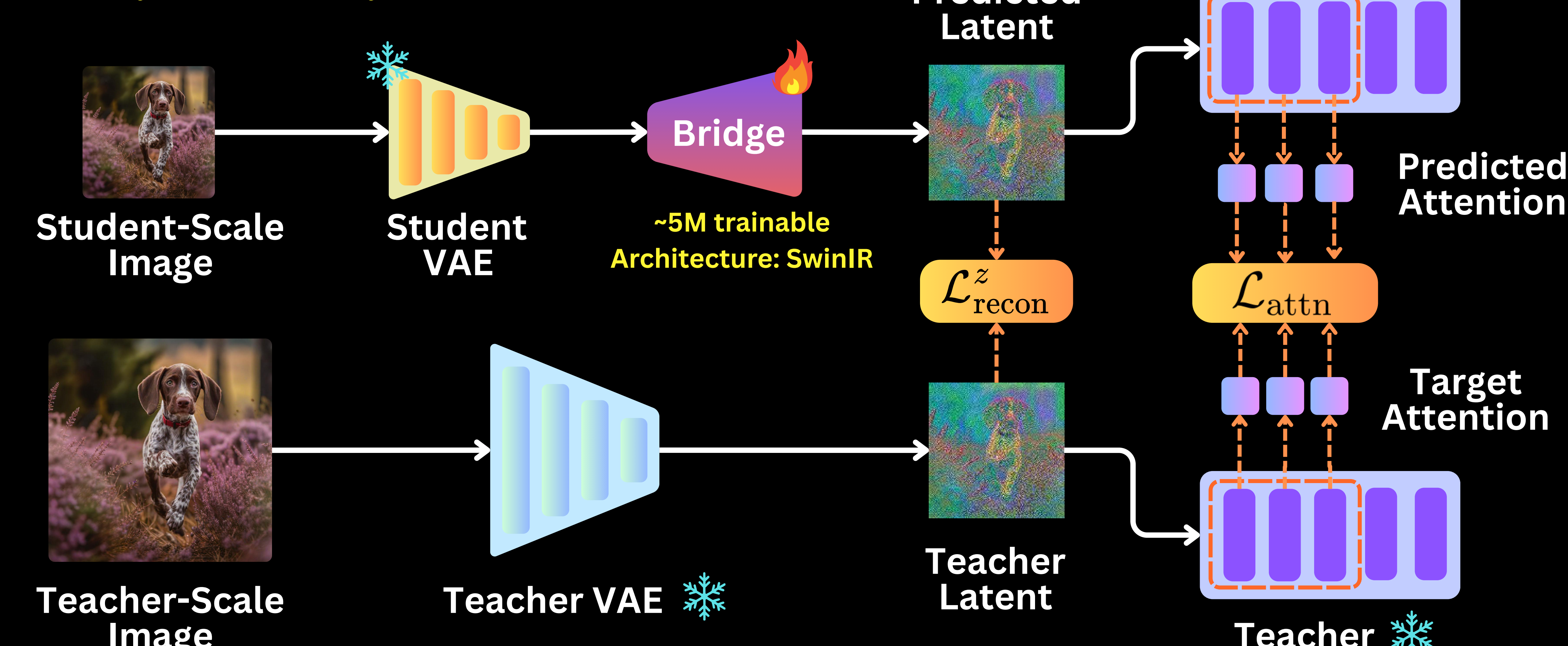
Distillation Enabled by Bridge



Inference w/ Resolution Upgrade



Bridge Training



Main Results

Teacher	Paras	NFE	Metrics				
Architect.	Model	(B)	HPSv3	HPSv2	IR	MPS	DPG
A. Multi-Step Teachers							
Large U-Net	SDXL [36]	2.57	50	9.25	28.36	0.66	13.72
	Kolors [46]	2.57	50	10.59	30.94	0.88	14.12
DiT	PixArt-Σ-1024 [3]	0.61	20	9.62	30.39	0.92	14.14
MM-DiT	FLUX.2-klein-4B [17]	4.00	50	10.05	28.90	0.80	14.00
	SD 3.5 Medium [8]	2.50	50	10.86	30.02	0.96	14.13

B. Cross-Space Distillation								
SD 1.5 Student, DMD2 [57] (init.)			0.86	1	5.37	21.90	-0.29	10.42
Large U-Net	SDXL [36]		0.86	1	9.04	27.37	0.30	11.93
	Kolors [46]		0.86	1	9.33	27.38	0.34	11.66
DiT	PixArt-Σ-1024 [3]		0.86	1	8.65	26.43	0.30	11.94
MM-DiT	FLUX.2-klein-4B [17]		0.86	1	9.49	26.64	0.40	12.35
	SD 3.5 Medium [8]		0.86	1	9.42	28.30	0.62	12.96
Merged (All 5 Teachers)			0.86	1	10.53	29.07	0.65	12.62

Same compact student

Modern teachers

One-step inference

