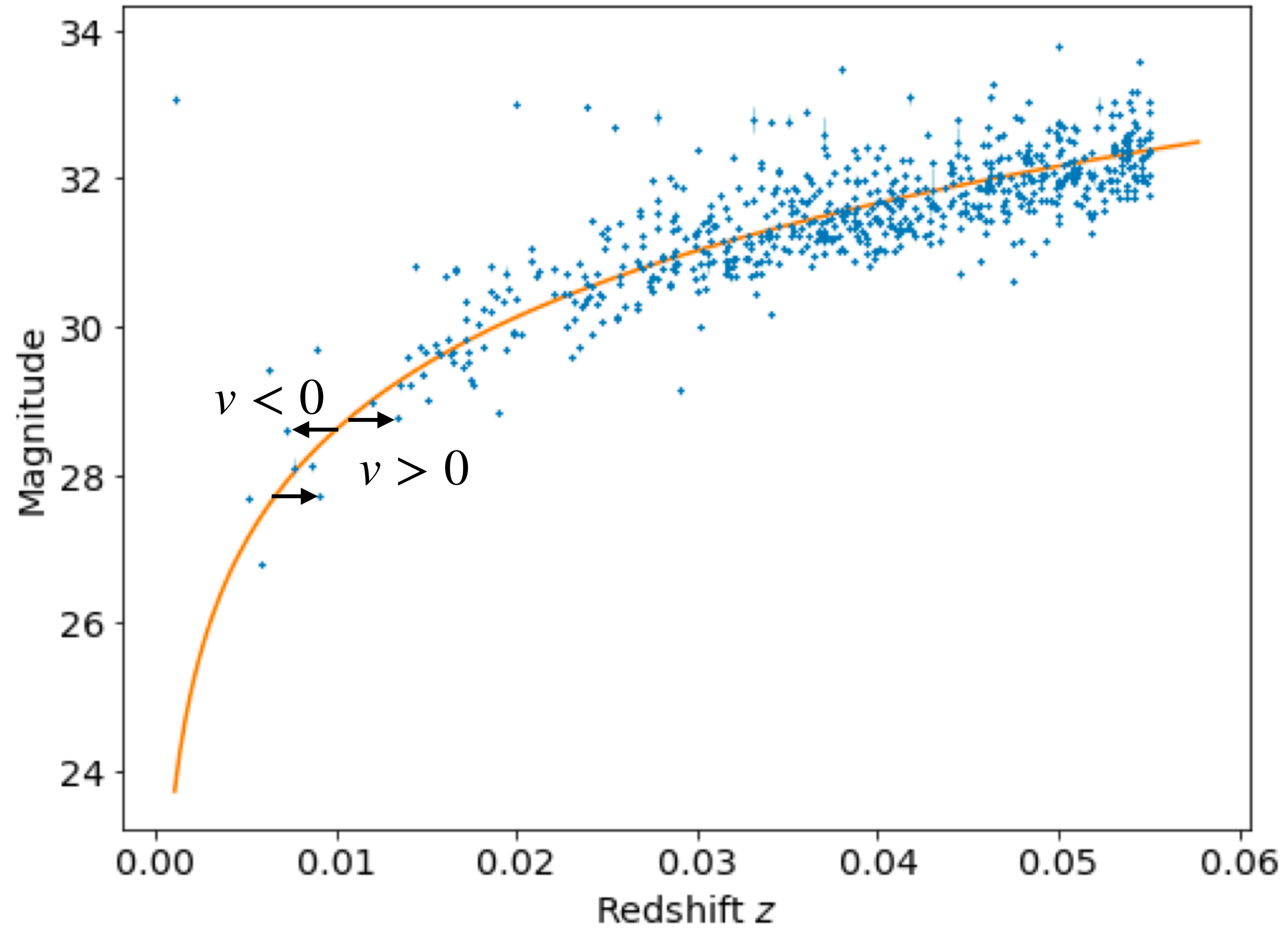


PhD Talk

Robert Estelle: 1st year PhD student
Supervisor: M.Rigault

Tensor flow Bayesian Forward Modeling $f\sigma_8$

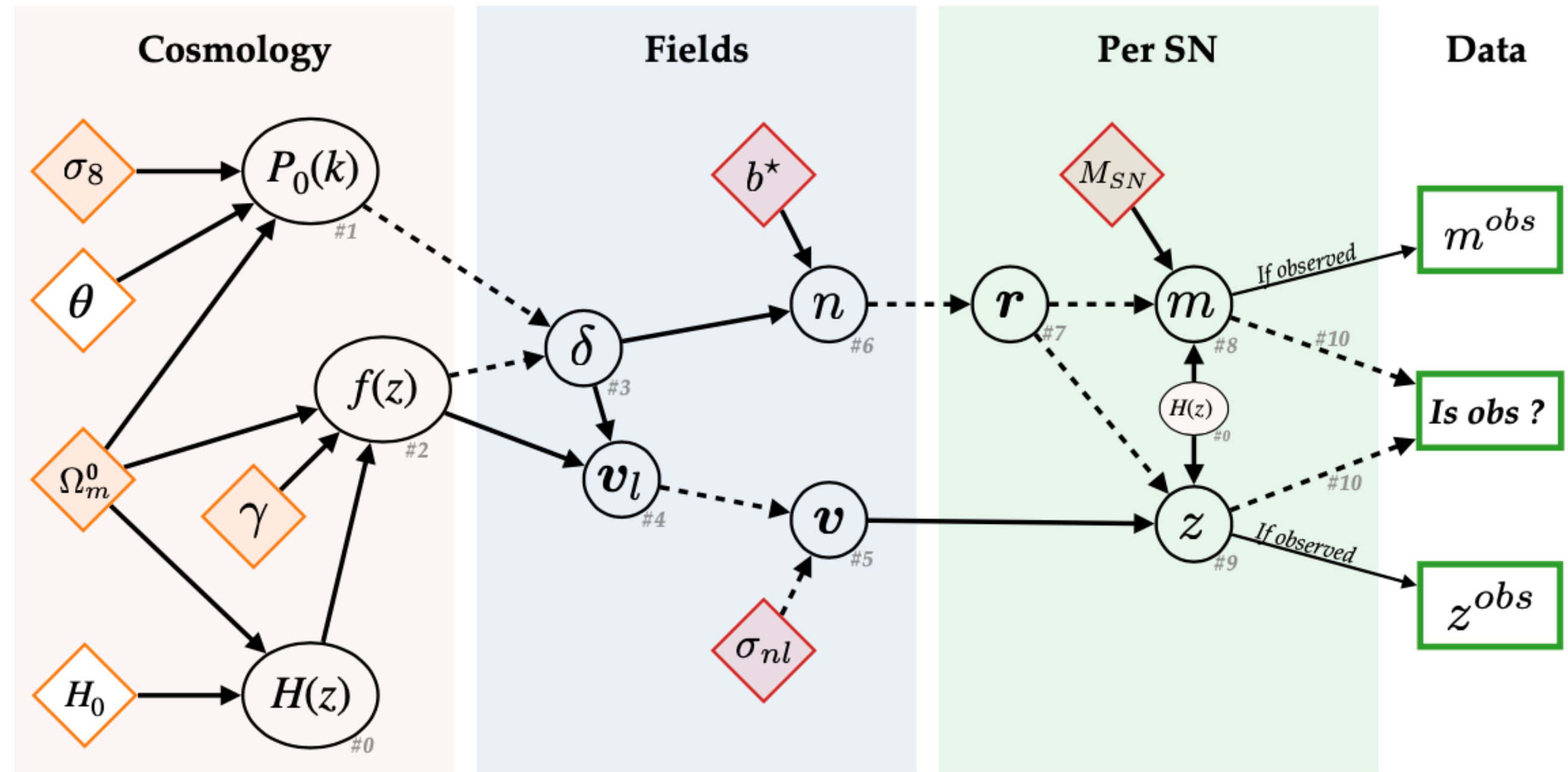
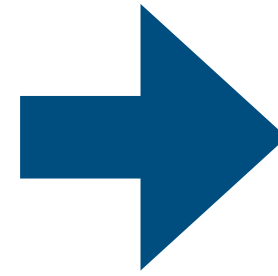
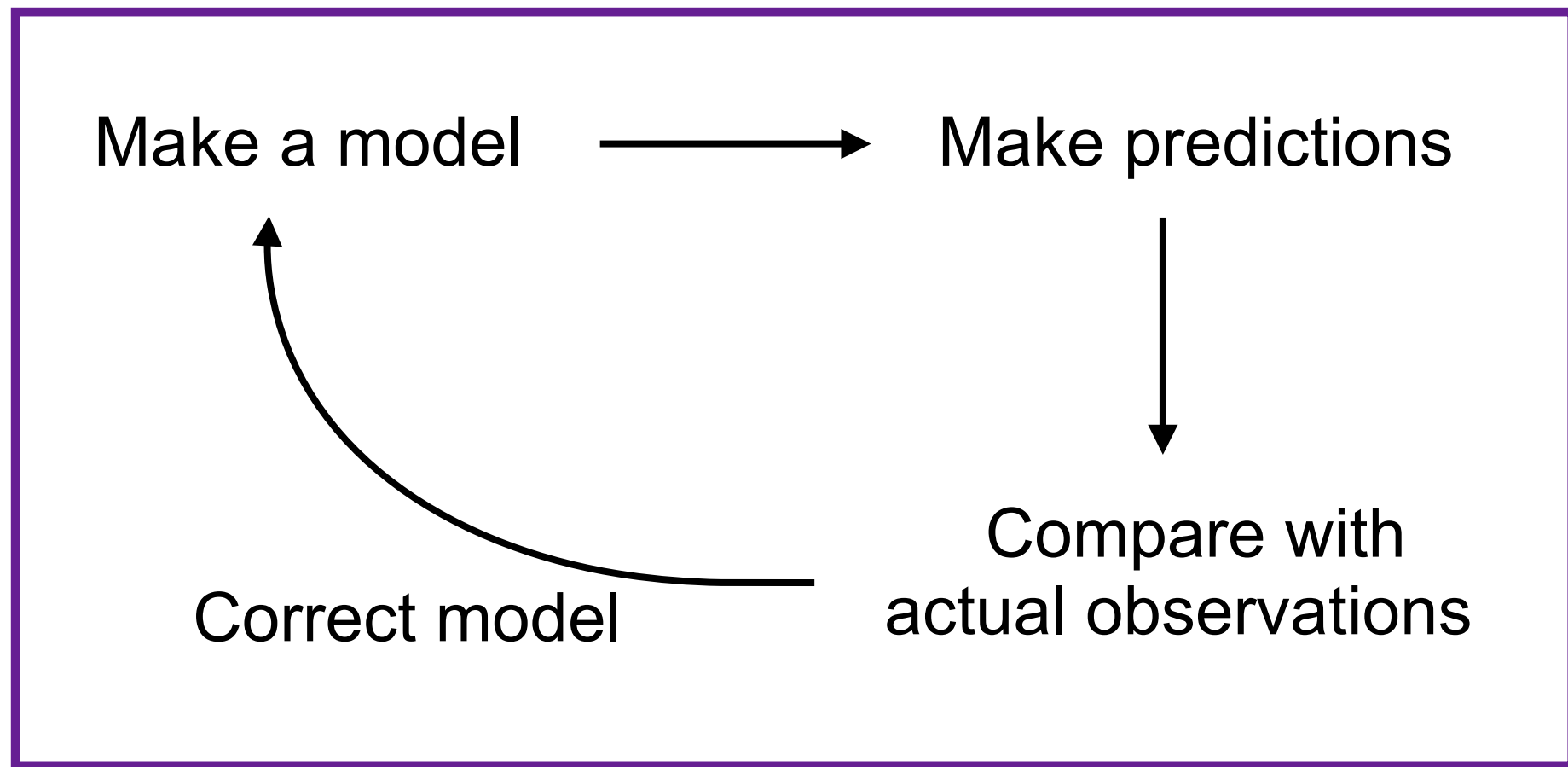


Peculiar velocities: Hubble diagram residuals

Tensor flow Bayesian Forward Modeling $f\sigma_8$

Bayesian Forward Modeling:

Bayes probabilities



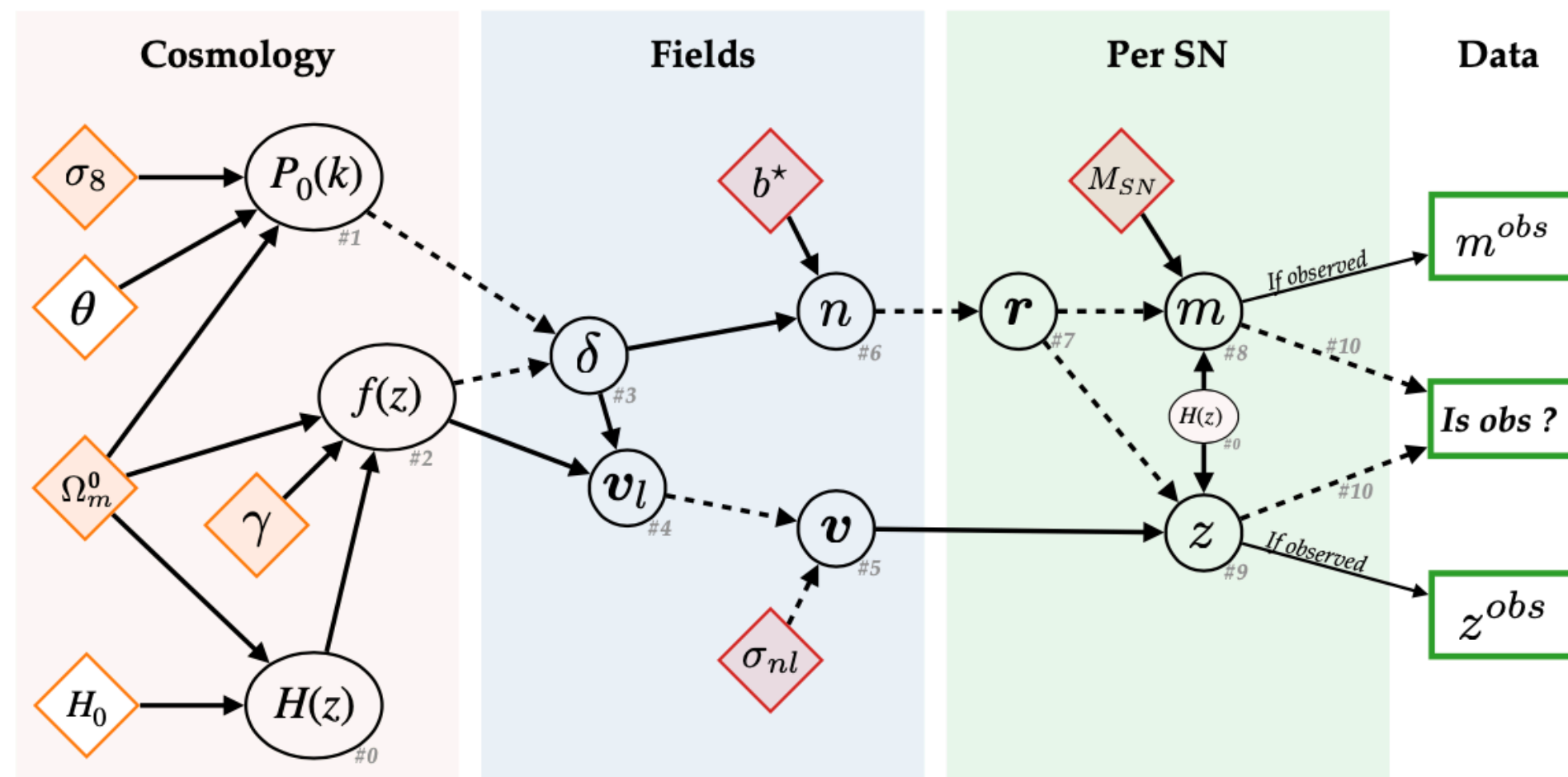
R.Graziani "in prep"

Tensor flow Bayesian Forward Modeling $f\sigma_8$

Tensor flow:
platform for machine learning



GPU:
perform highly parallelized computation



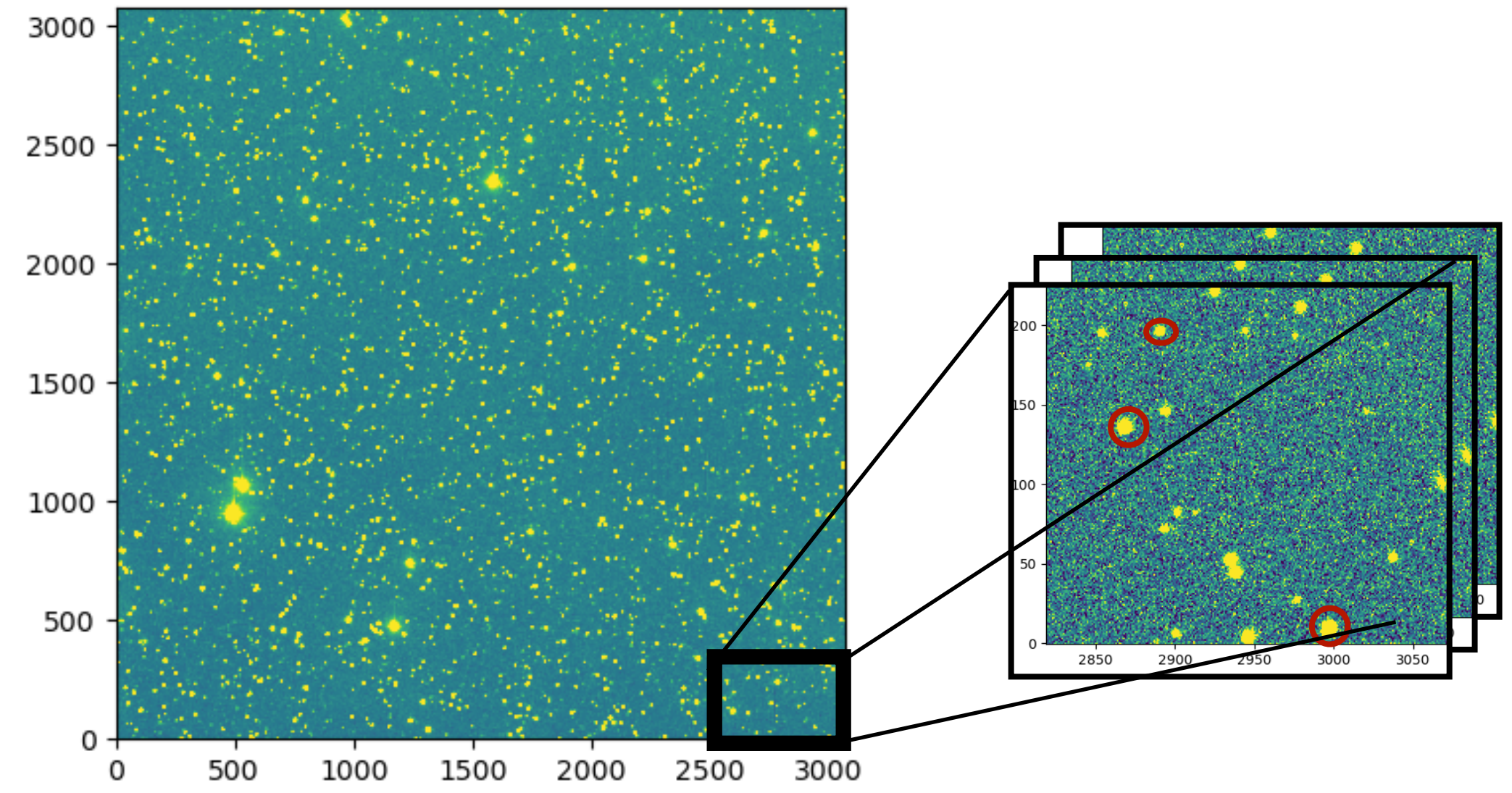
Location of SN given nbSN/bin:

CPU	GPU
2.97 s	169 ms

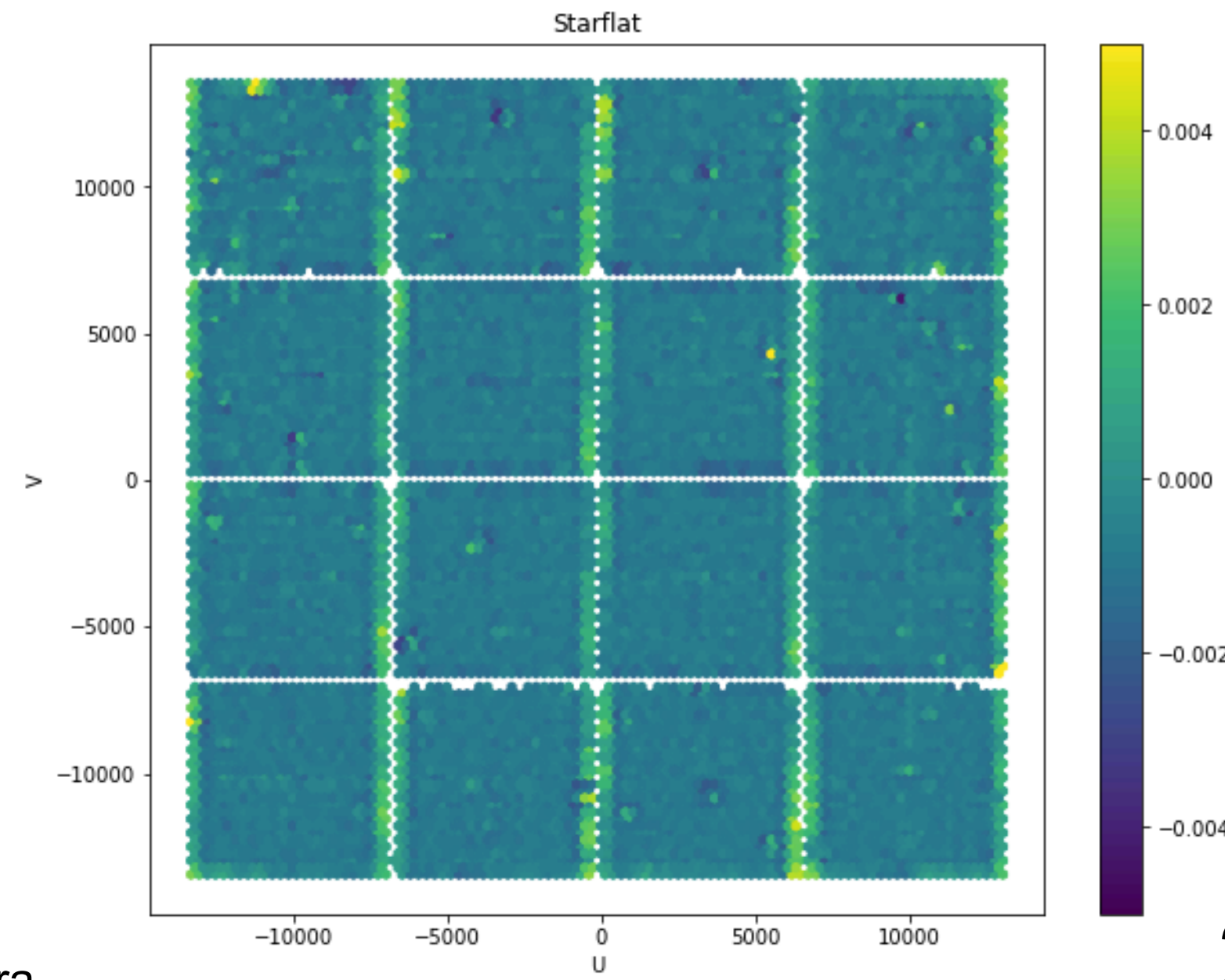
preliminary

Starflat

1 ZTF quadrant



60	57	56	53	52	49	48	
16	15	14	13				
62	63	58	59	54	55	50	
45	44	41	40	36	33	32	
12	11	10	09				
46	47	42	43	38	39	34	35
29	28	25	24	21	20	17	16
08	07	06	05				
30		26	27	22	23	18	
q2	q1	09	08	05	04	01	00
13	12						
q3	q4	04	03	02	07	02	03
14	15	10	11				



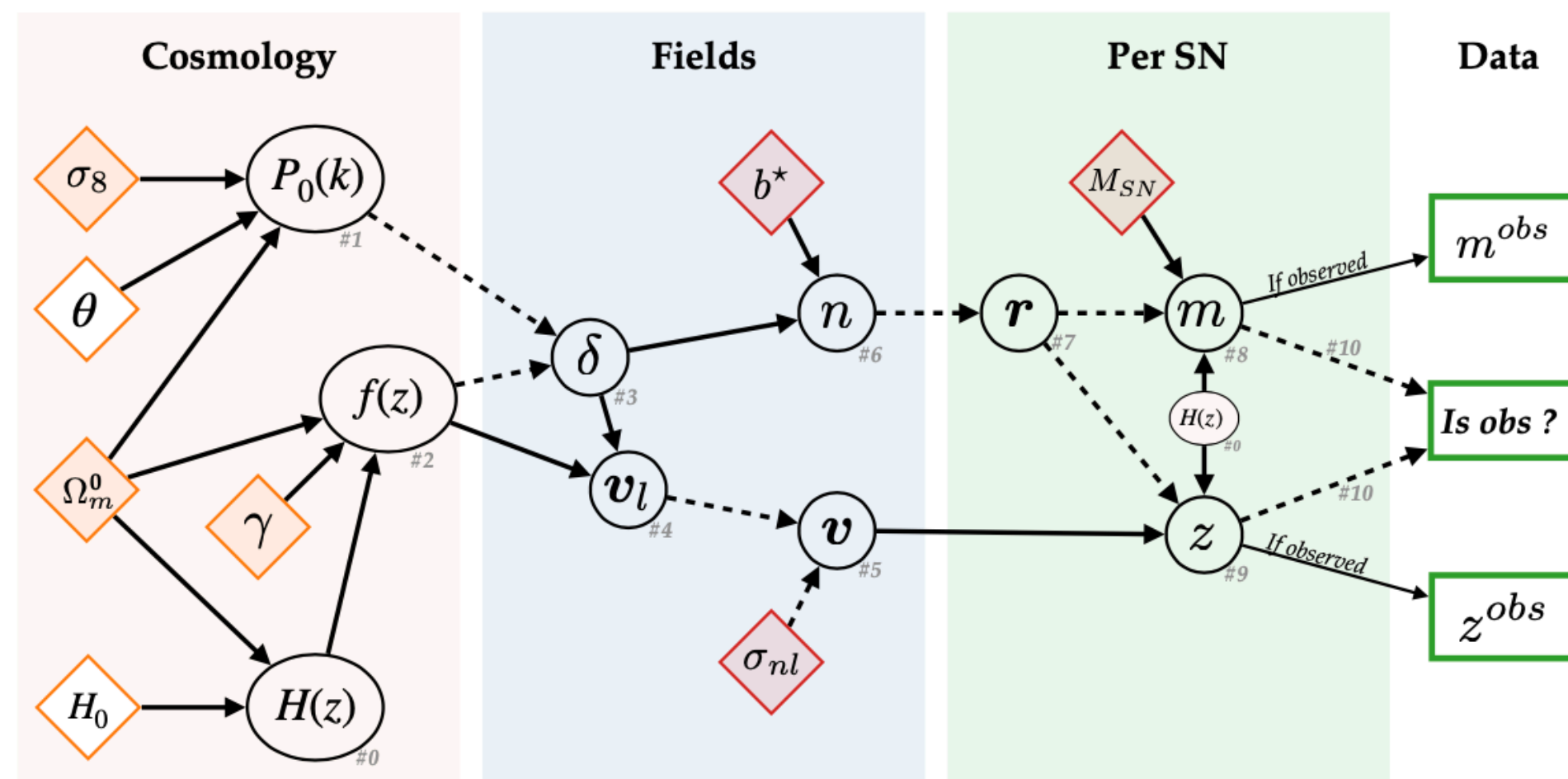
2021

Starflat : flux variation of a star depending on its position on the camera

DAG

Tensor flow

Calibration: starflat



GPU

