

On-Stream Photometric Model w.p. f \mathbf{m}_n $\mathbf{m}_n \sim \mathcal{N} \left(\text{Isochrone}(\mu_{\text{dist}}) \mid \text{IMF}, \Sigma_{\text{instr.}} \right)$ $\mu_{\mathrm{dist}}\left(\phi_{1}\right)$

Off-Stream Photometric Model

 $g, r | \phi_1 \sim q_{\text{flow}}(g, r; \phi_1)$ w.p. 1 - f