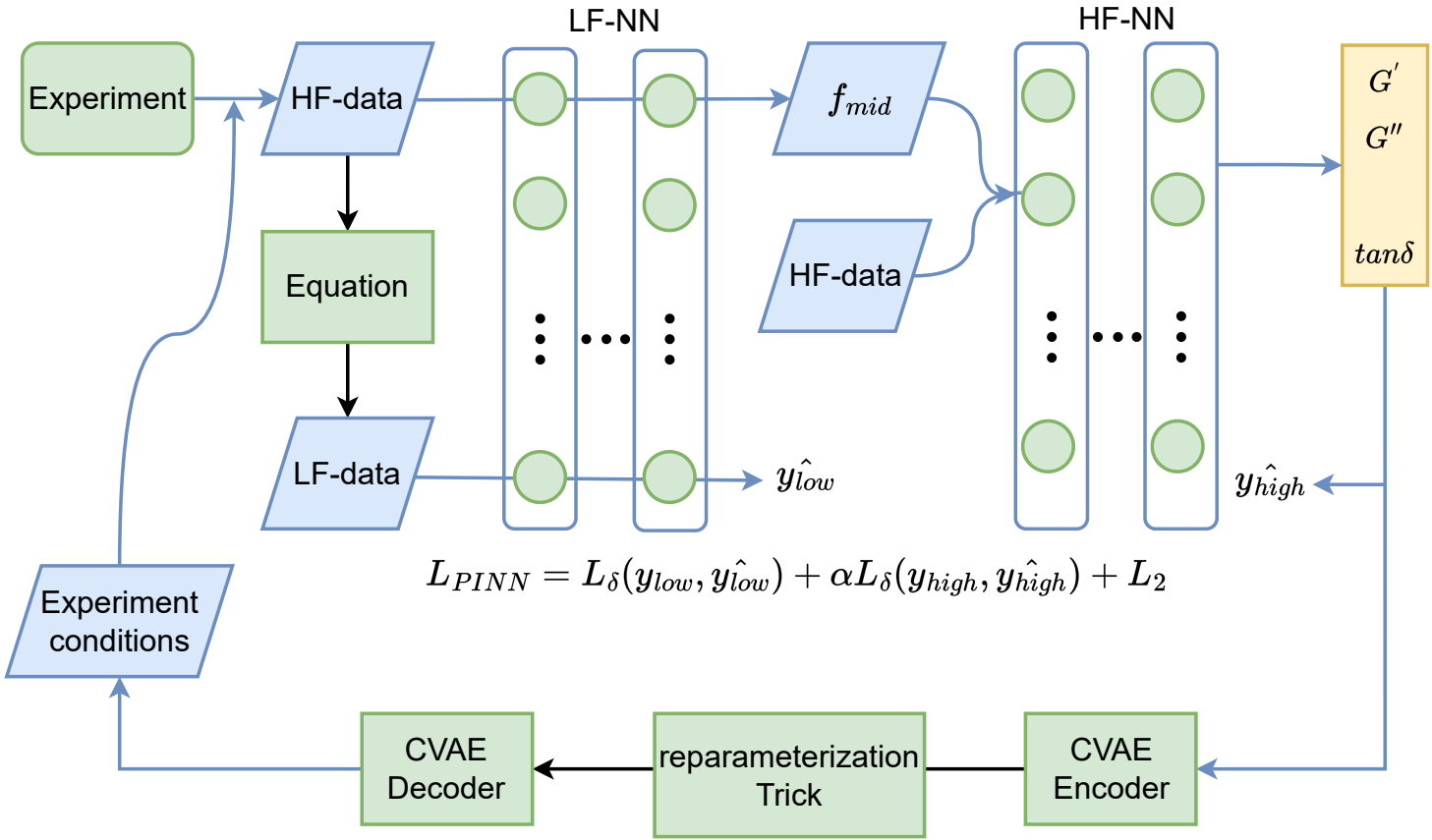


$$L_{PINN} = L_\delta(y_{low}, y_{\hat{low}}) + \alpha L_\delta(y_{high}, y_{\hat{high}}) + L_2$$

$$\mathcal{L}(\theta_E, \theta_D) = \mathbb{E}_{q_{\theta_E}(z|\mathbf{x},p)}\left[\log p_{\theta_D}(\mathbf{x}|z,p)\right] - D_{KL}\left(q_{\theta_E}(z|\mathbf{x},p) \parallel p(z|p)\right)$$