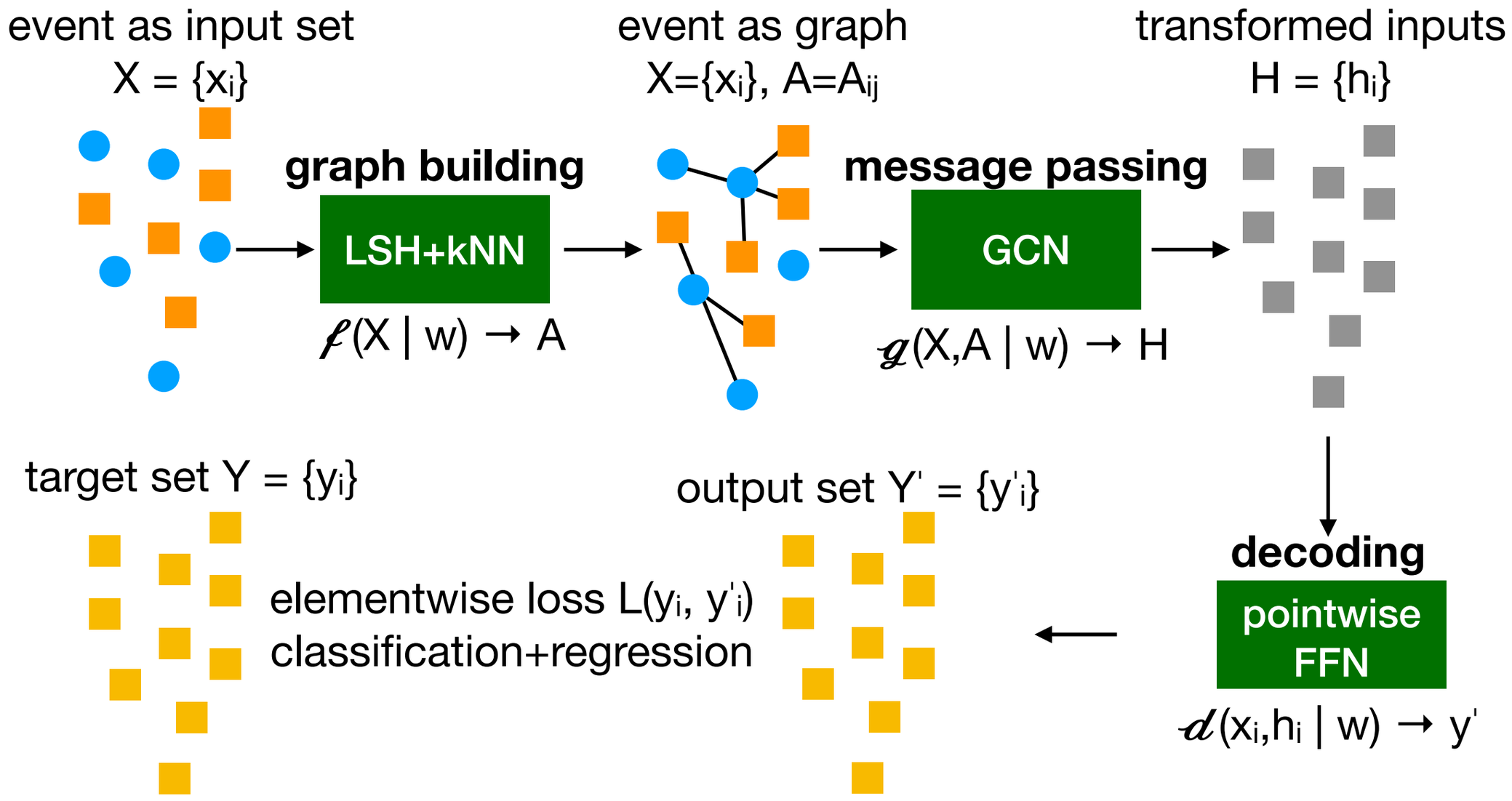

x_i = [type, p_T, E_{hcal}, E_{ecal}, η, ϕ, $η_{outer}$, $ϕ_{outer}$, track charge, ...], type ∈ {track, calo. cluster}

y_i = [PID, p_T, E, η, ϕ, particle charge, ...], PID ∈ {none, ch.had., n.had., γ, $e^{\pm}$, $μ^{\pm}$}

$h_i \in \mathbb{R}^N$, N = 256

trainable neural networks: ℓ, $\mathcal{g}$, $\mathcal{d}$