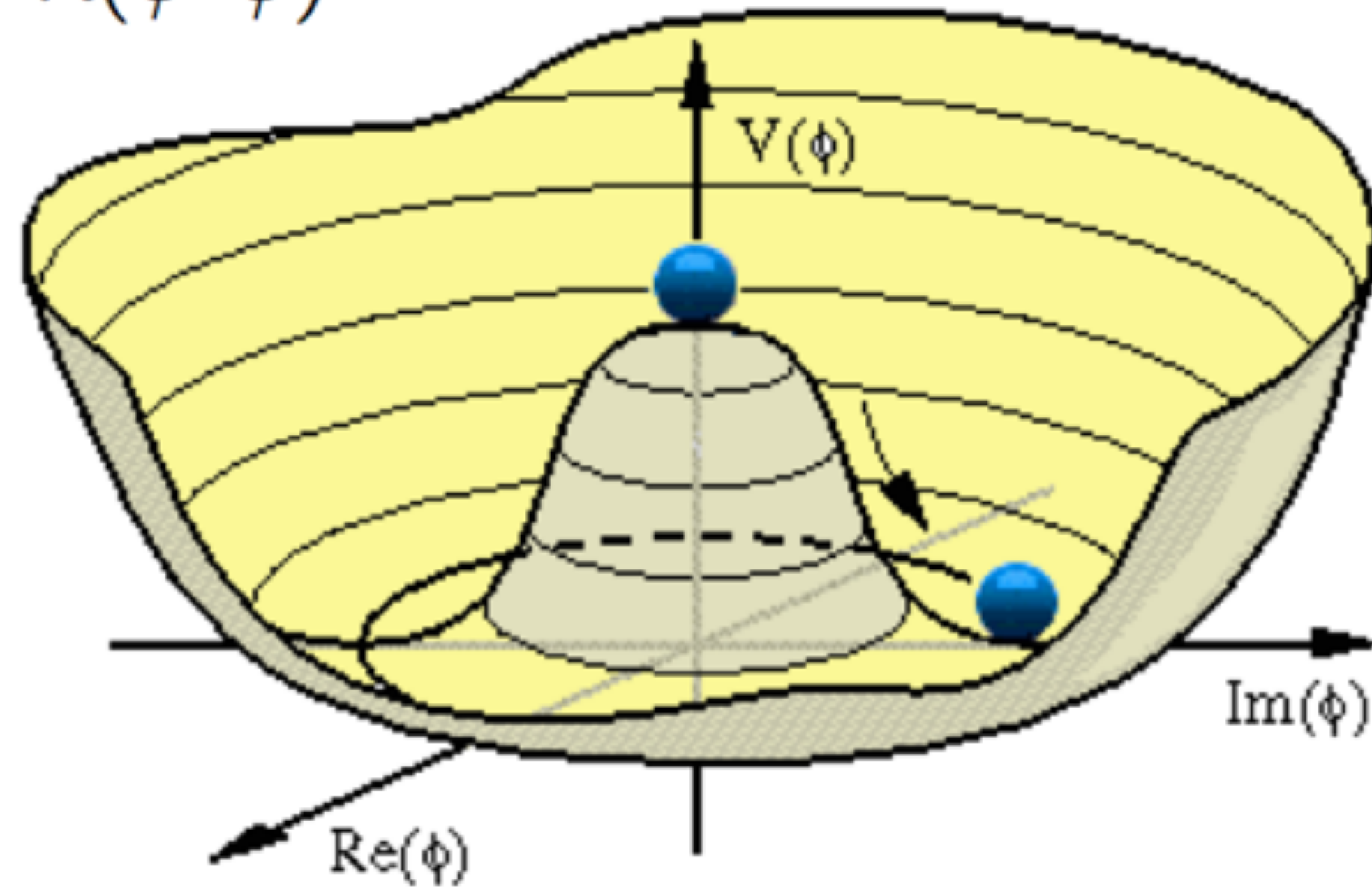
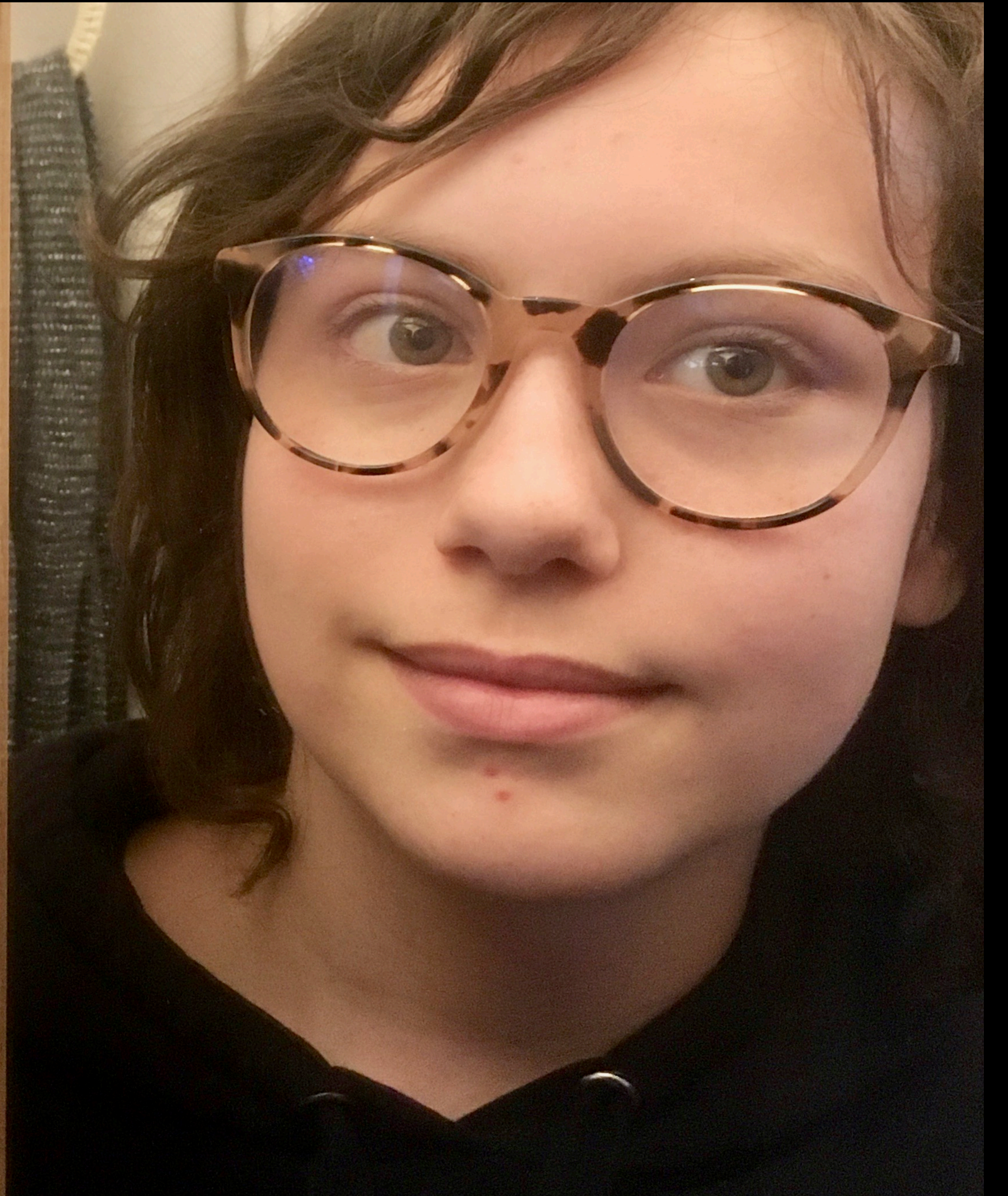


$$\begin{aligned}
\mathcal{L} = & -\frac{1}{4}F^{\mu\nu}F_{\mu\nu} - \frac{1}{4}G^{A\mu\nu}G_{\mu\nu}^A - \frac{1}{4}W^{A\mu\nu}W_{\mu\nu}^A \\
& + i\bar{Q}_L^i \mathbf{D}_C Q_L^i + i\bar{u}_R^i \mathbf{D}_C u_R^i + i\bar{d}_R^i \mathbf{D}_C d_R^i + i\bar{L}_L^i \mathbf{D}_C L_L^i + i\bar{e}_R^i \mathbf{D}_C e_R^i \\
& - \Gamma_u^{ij} \bar{Q}_L^i \epsilon \phi u_R^j - \Gamma_d^{ij} \bar{Q}_L^i \phi d_R^j - \Gamma_e^{ij} \bar{L}_L^i \phi e_R^j - (\leftarrow)^\dagger \\
& + (\mathbf{D}^\mu \phi)^\dagger \mathbf{D}_\mu \phi + \mu^2 \phi^\dagger \phi - \lambda(\phi^\dagger \phi)^2
\end{aligned}$$





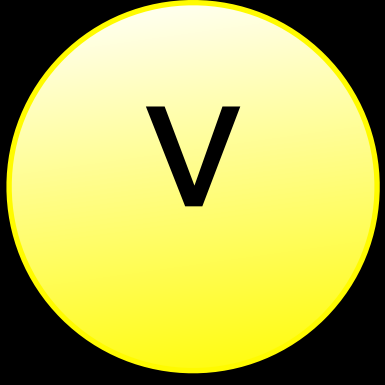


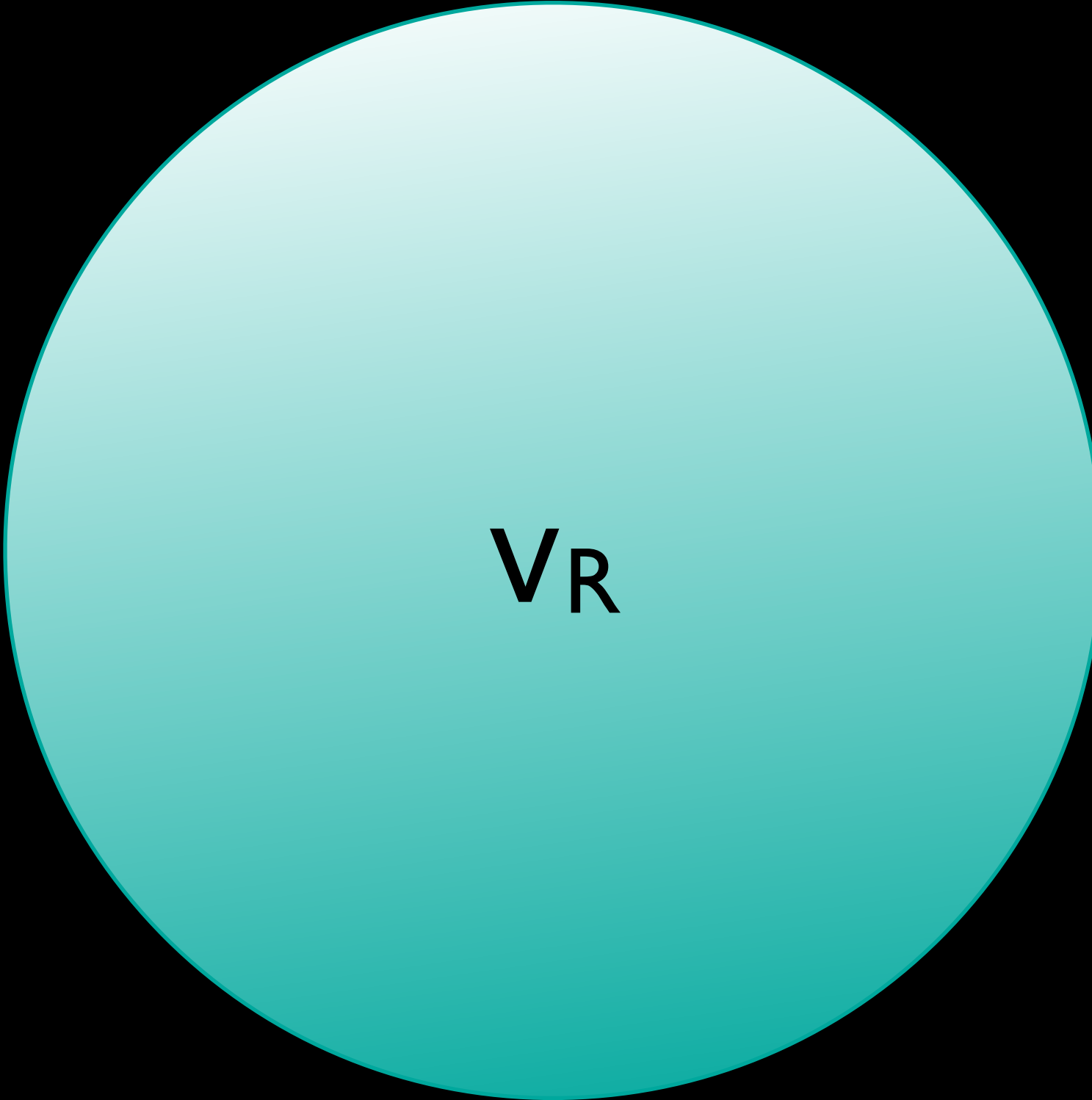
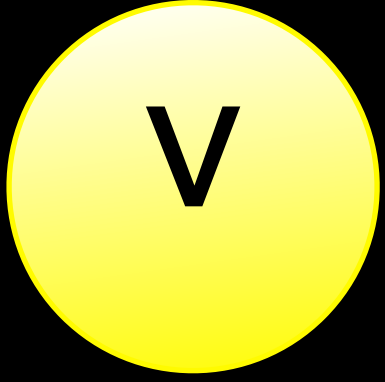
















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