$$\cdots \longrightarrow \boxed{\diagup\!\!\!\!\nearrow} = \quad \Longleftrightarrow \quad \sum_i \mathrm{tr}[\hat{\rho}_i(\ldots)]\hat{\rho}_i = \sum_i \hat{K}_i(\ldots)\hat{K}_i^\dagger$$

with the measurement outcome $\{\hat{\rho}_i\}$ labeled above the detector.