[-j,j] = stealth', shorten j = 1pt, auto, node distance = 2cm, thick [inputstate] $[\text{rho}_1]$ [oputstate] $[\text$ [quantumswitch,right=of rho₁]($switch_1$)S, '-': [$ancilla, right=ofswitch_1$]($ancilla_1$); [$quantumswitch, below=ofswitch_1$] [outputstate, right=of ancilla] [$(output_1)$ S, '-'; [ancilla, $below = of output_1$] [$(ancilla_3)$; [outputstate, right = of ancilla $(\text{rho}_1)edgenode[above, align = center] \dot{\mathbf{E}}(\rho_i) \text{ (switch}_1); (rho_2)edgenode[above, align = center] \dot{\mathbf{E}}(\rho_i) \text{ (switch}_1); (rho_3)edgenode[above, align = center] \dot{\mathbf{E}}(\rho_i) \text{ (switch}_1); ($ $(\text{rho}_1)edgenode[above, align = center] E(\rho_i) \text{ (switch}_2); (rho_2)edgenode[above, align = center] E(\rho_i) \text{ (switch}_2); (rho_3)edgenode[above, align = center] E(\rho_i) \text{ (switch}_3); (rho_3)edgenode[above, align = center] E(\rho_i) \text{ (switch}$ [-i] (switch₁) --node[above]C₋($\mathcal{E}(\rho_i)$) (output₁); [->](switch₂) --node[above]C₋($\mathcal{E}(\rho_i)$) (output₂); [-t] (ancilla₁) edge[bendleft=20] node[above] '+' (output₃); [->] (ancilla₂) edge[bendright=20] node[below] '-' (output₃); [->]