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Index of Symbols

$\mathrm{H}_{\min}(\Phi)$	The minimum output entropy of a channel Φ.	451
$\mathrm{C}(\Phi)$	The classical capacity of a channel Φ.	466
$\mathrm{C}_{\mathrm{E}}(\Phi)$	The entanglement-assisted classical capacity of a channel Φ.	469
$\chi(\Phi)$	The Holevo capacity of a channel Φ.	470
$\chi_{\mathrm{E}}(\Phi)$	The entanglement-assisted Holevo capacity of a channel Φ.	474
$\mathrm{I}_{\mathrm{C}}(\rho;\Phi)$	The coherent information of a state ρ through a channel Φ.	474
$\mathrm{I}_{\mathrm{C}}(\Phi)$	The maximum coherent information of a channel Φ.	474
$K_{a_1\cdots a_n,\varepsilon}(p)$	The set of ε-typical strings of length n, conditioned on a string $a_1\cdots a_n$, with respect to the probability vector p.	479
$\Lambda_{a_1\cdots a_n,\varepsilon}$	Projection onto the ε-typical subspace of $\mathcal{X}^{\otimes n}$, for $\mathcal{X}$ a complex Euclidean space, conditioned on a string $a_1\cdots a_n$.	481
$S_{n,\varepsilon}(p)$	The set of ε-strongly typical strings of length n with respect to the probability vector p.	498
$\mathrm{Q}(\Phi)$	The quantum capacity of a channel Φ.	513
$\mathrm{Q}_{\mathrm{EG}}(\Phi)$	The entanglement generation capacity of a channel Φ.	514
$\mathrm{Q}_{\mathrm{E}}(\Phi)$	The entanglement-assisted quantum capacity of a channel Φ.	519
$\Phi_0 \oplus \Phi_1$	The direct sum of maps Φ_0 and Φ_1.	540

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