Variants of Differential Privacy

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Definition	Gaussian mech.	Seq. Comp.	Advanced comp.	Conv. to (ϵ, δ)-DP
(ϵ, δ)-DP	$\sigma^2 = 2\Delta^2 \log(1.25/\delta)$	$(\epsilon_1 + \epsilon_2, \delta_1 + \delta_2)$	$(2\epsilon\sqrt{2k\log(1/\delta')}, k\delta + \delta')$	n/a
Moments acct.	(same as DP)	(same as DP)	$(4\epsilon\sqrt{2k\log(1/\delta)}, \delta)$	n/a
(α, ϵ)-RDP	$\sigma^2 = \frac{\Delta^2 \alpha}{(2\epsilon)}$	$(\alpha, \epsilon_1 + \epsilon_2)$	n/a	$(\epsilon + \frac{\log(1/\delta)}{\alpha - 1}, \delta)$
ρ-zCDP	$\sigma^2 = \frac{\Delta^2}{(2\epsilon)}$	$\rho_1 + \rho_2$	n/a	$(\rho + 2\sqrt{\rho\log(1/\delta)}, \delta)$