Binary coalescence search $2\sigma 3\sigma$ 5.0σ 4σ $> 5.0\sigma$ $4\sigma 5.0\sigma$ 2σ 3σ $> 5.0\sigma$ 10² Search Result 10¹ Search Background Background excluding GW150914 10⁰ Number of events 10-1 10-2 10-3 10-4 10-5 GW150914 10^{-6} 10^{-7} 10⁻⁸ 22 10 12 16 20 8 14 18 24 Detection statistic $\hat{\rho}_c$