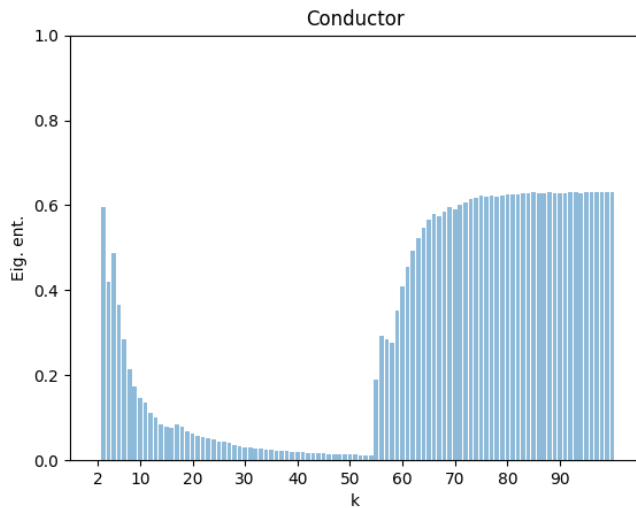


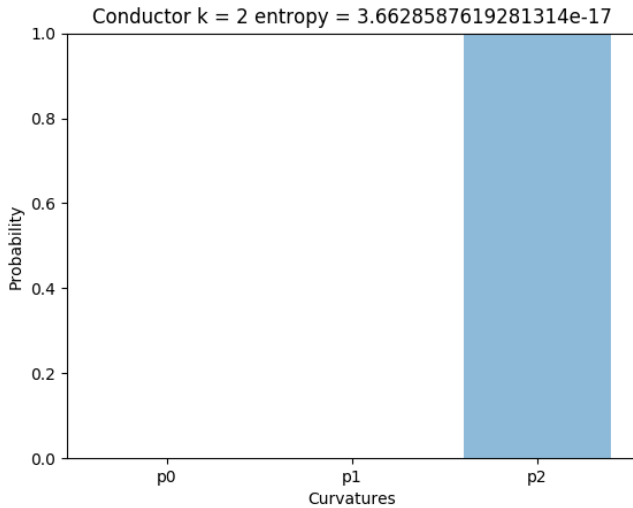
# Conductor

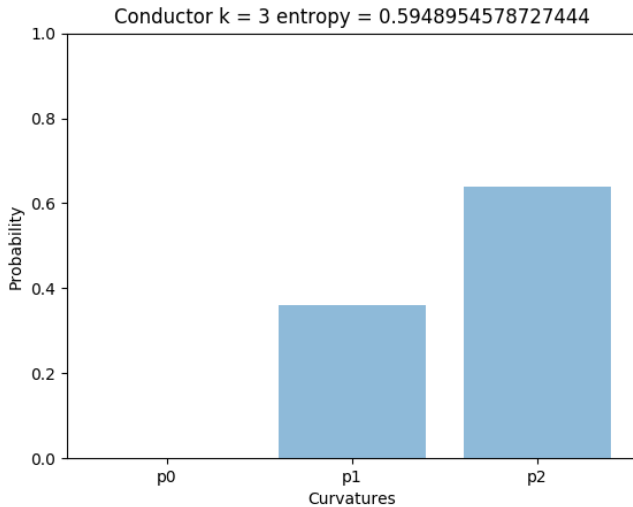
Eigenentropy behaviour

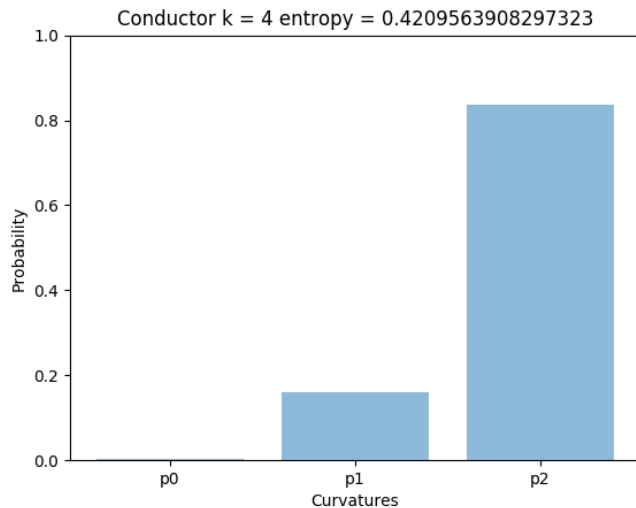
Samuel Dean

June 21, 2019

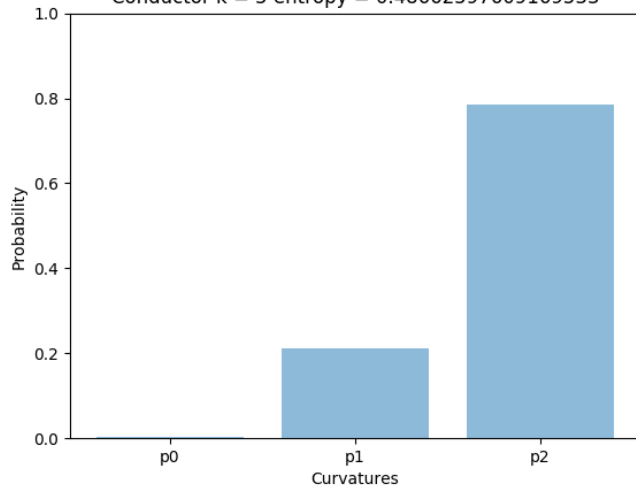


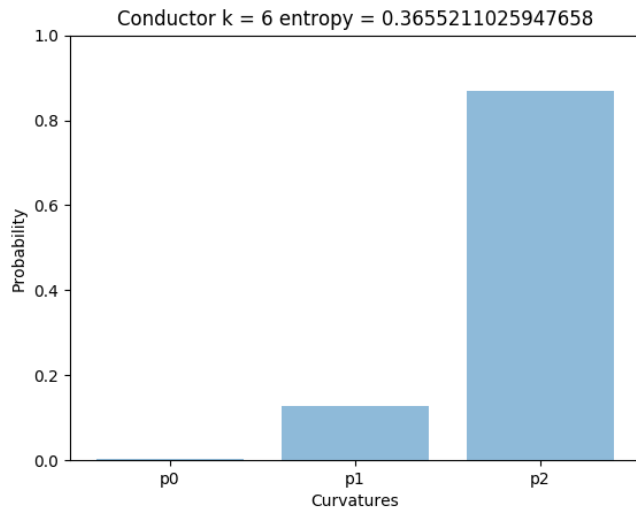


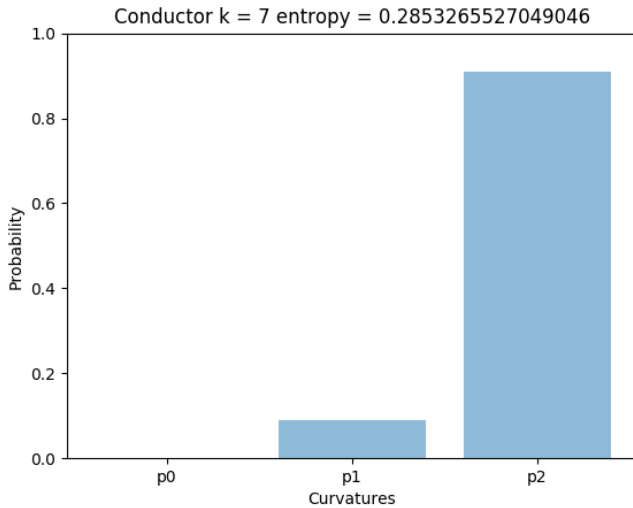




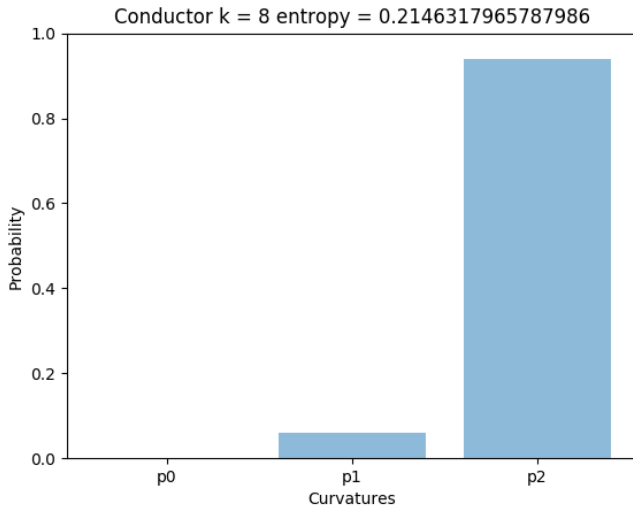
Conductor  $k = 5$  entropy = 0.48662597609169533



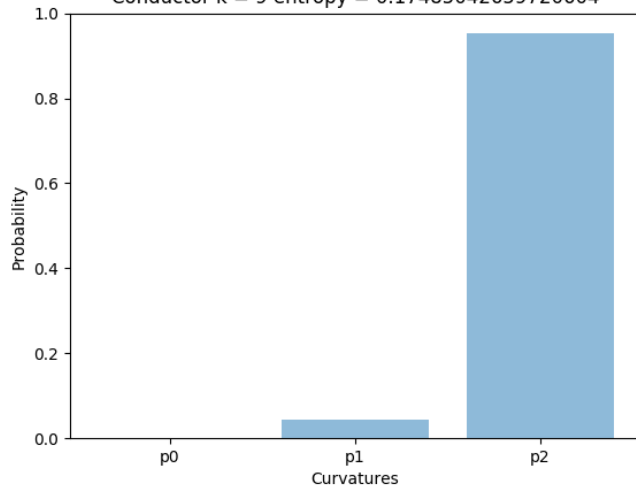




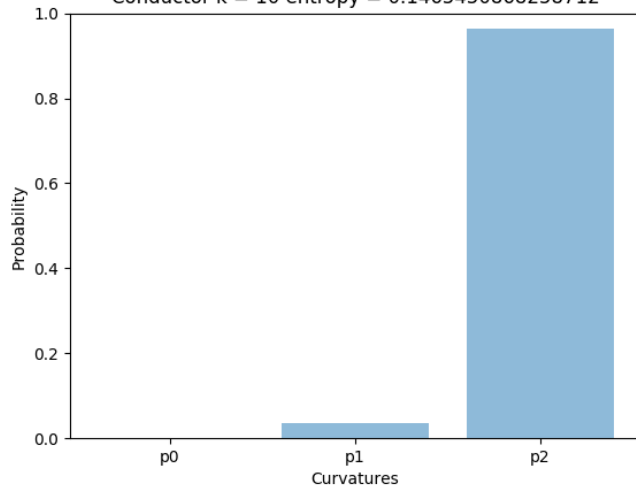




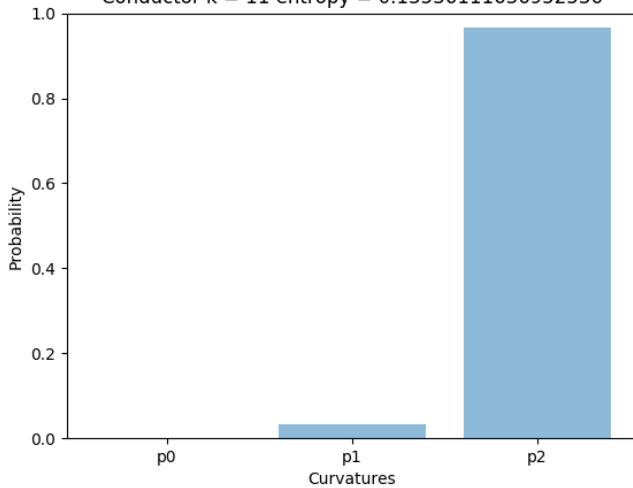
Conductor  $k = 9$  entropy = 0.17485042659720604



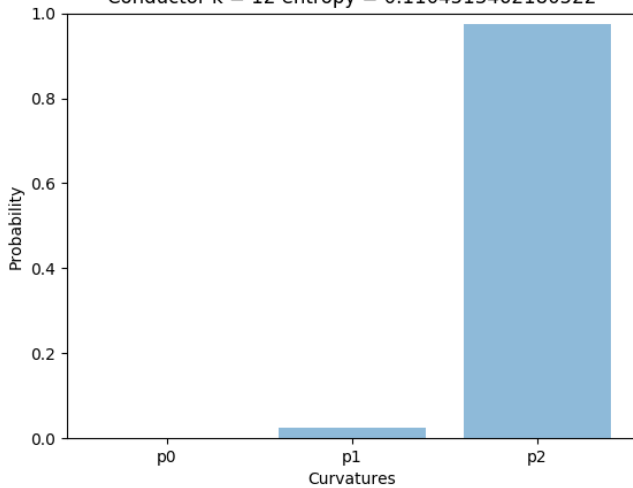
Conductor  $k = 10$  entropy = 0.1465450868258712



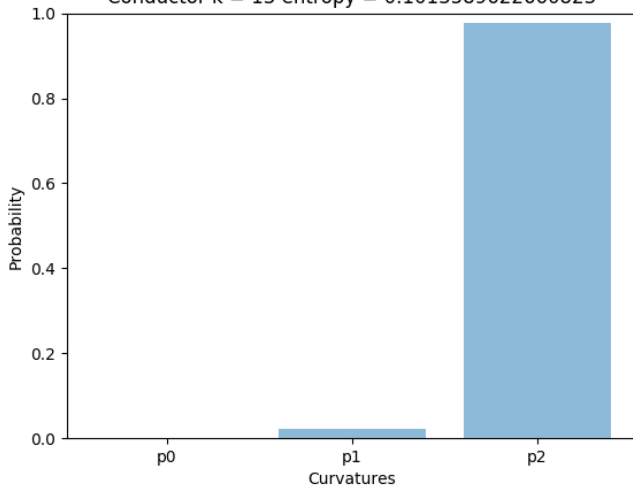
Conductor  $k = 11$  entropy = 0.13536111636952536



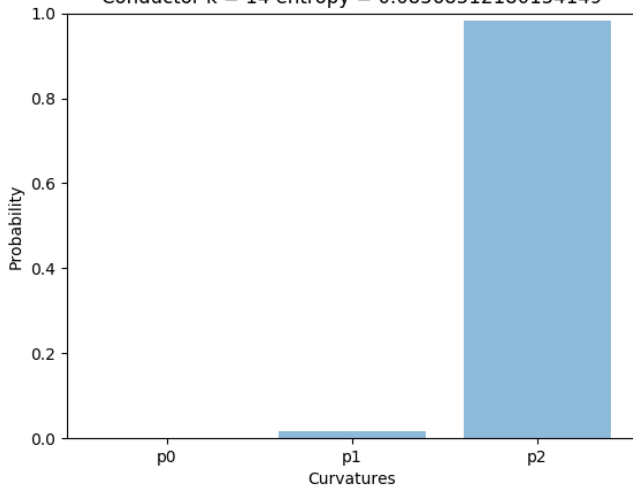
Conductor  $k = 12$  entropy = 0.1104513462180522

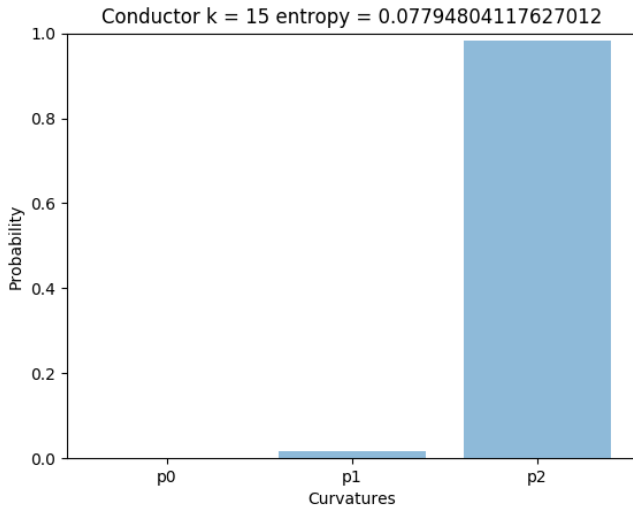


Conductor  $k = 13$  entropy = 0.1013589622660823



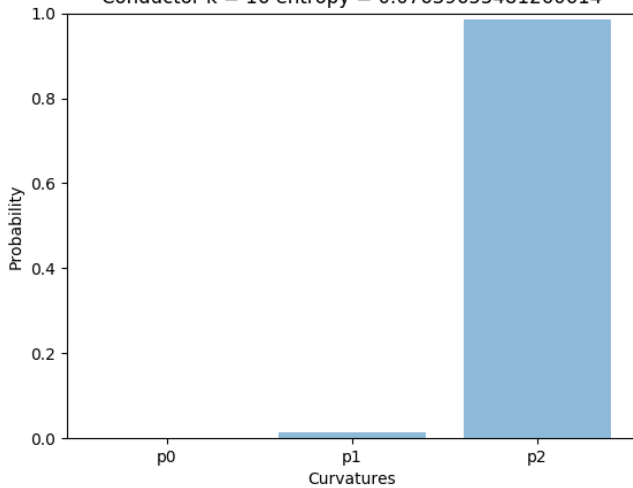
Conductor  $k = 14$  entropy = 0.08568512180154149

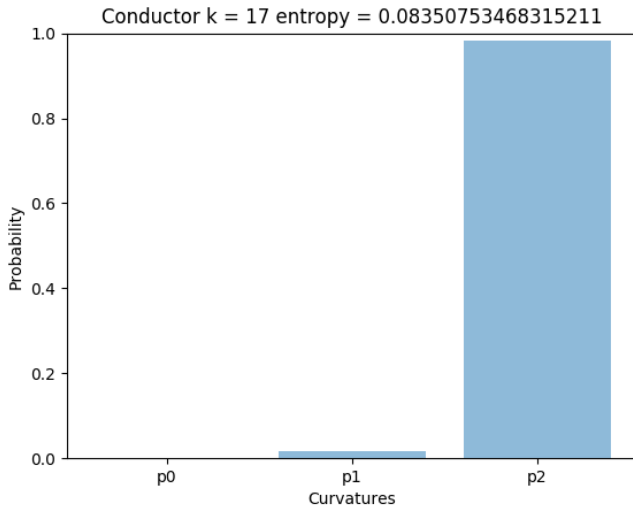




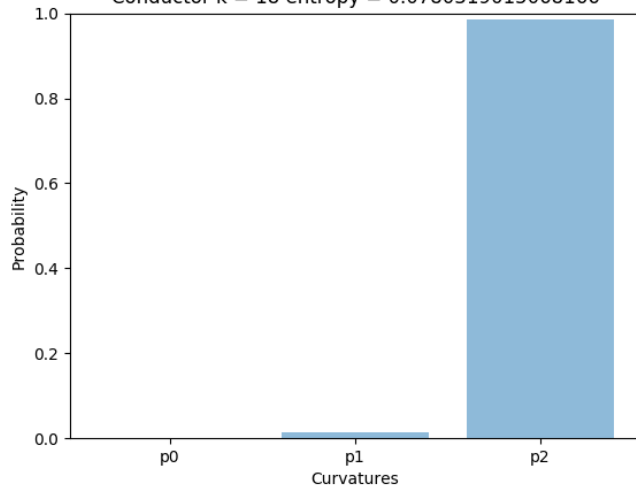


Conductor  $k = 16$  entropy = 0.07639655481260614

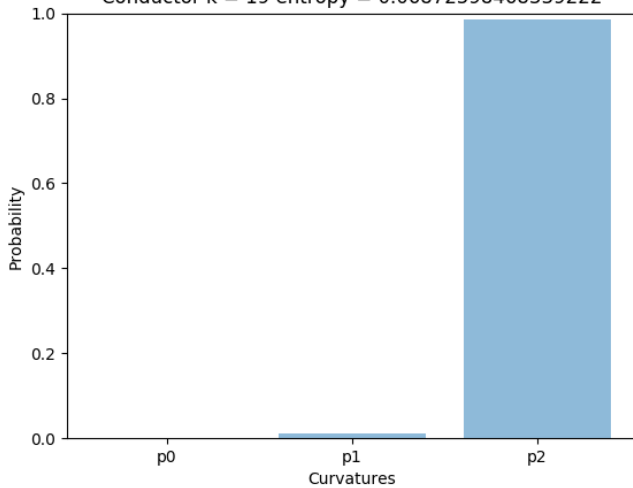


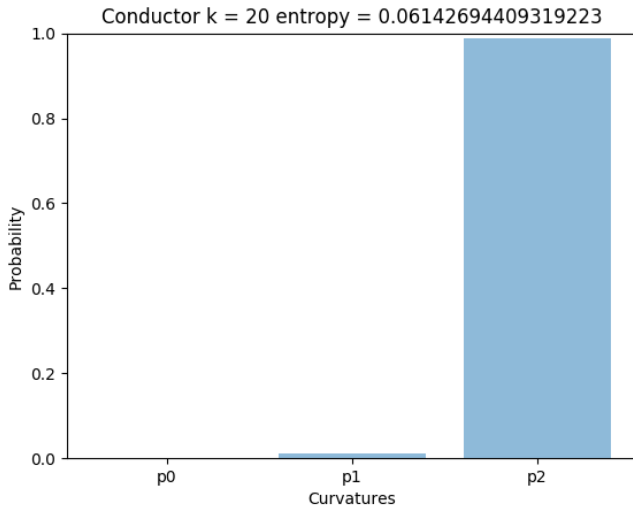


Conductor  $k = 18$  entropy = 0.0780319015068166

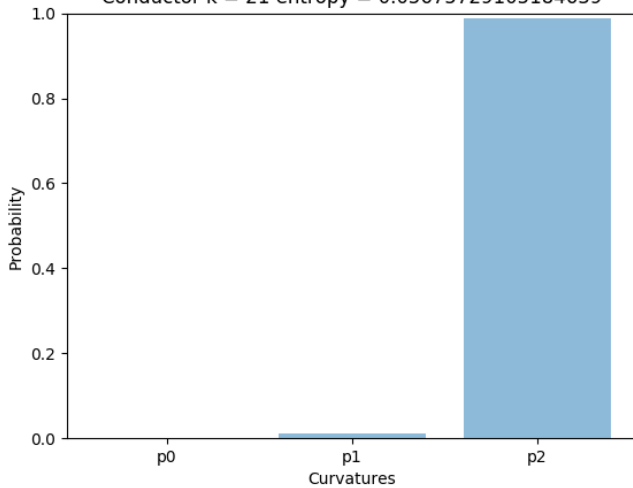


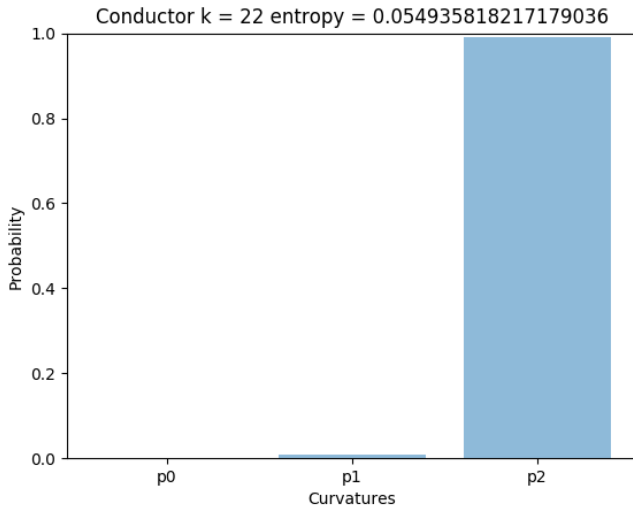
Conductor  $k = 19$  entropy = 0.06872598468339222



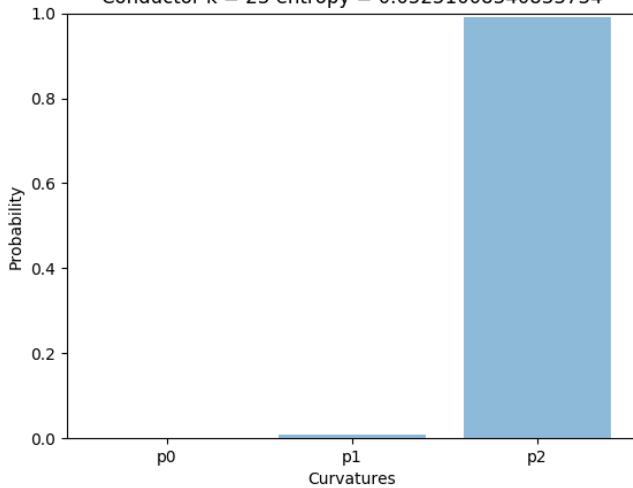


Conductor  $k = 21$  entropy = 0.05675729105184639



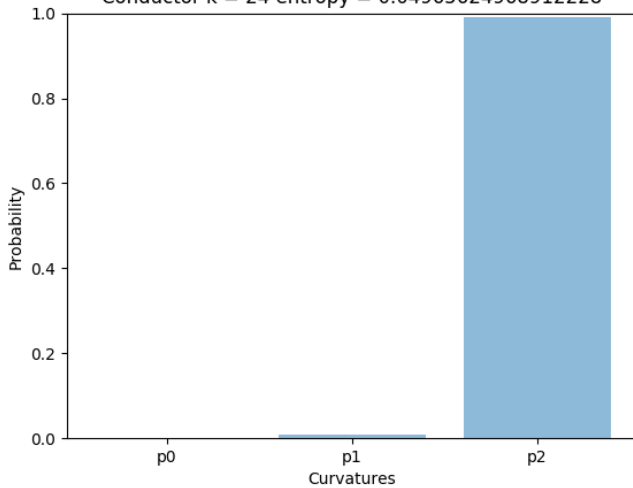


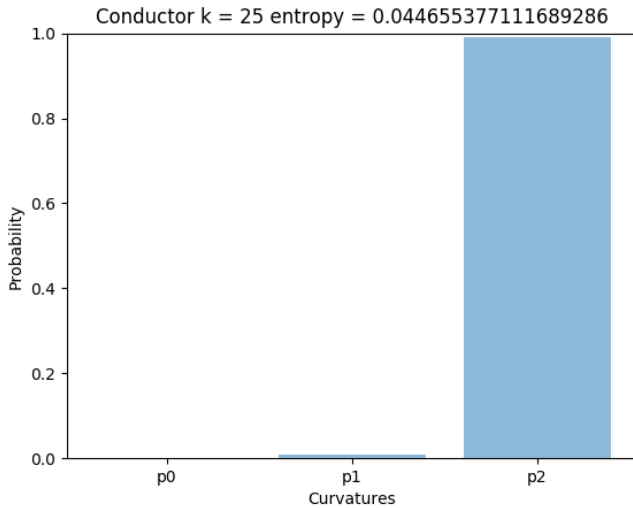
Conductor  $k = 23$  entropy = 0.05251008340833734



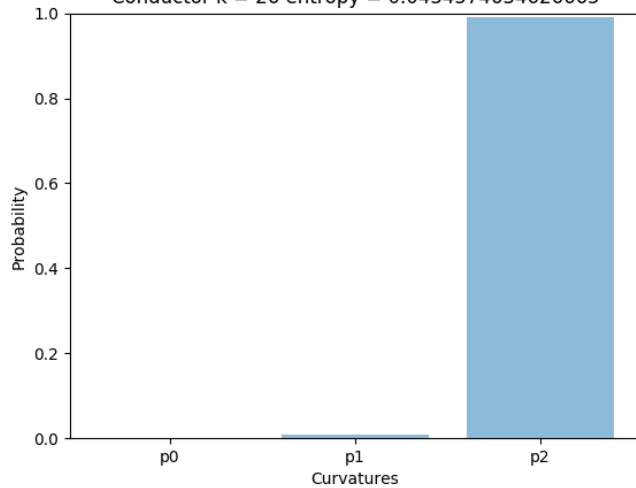


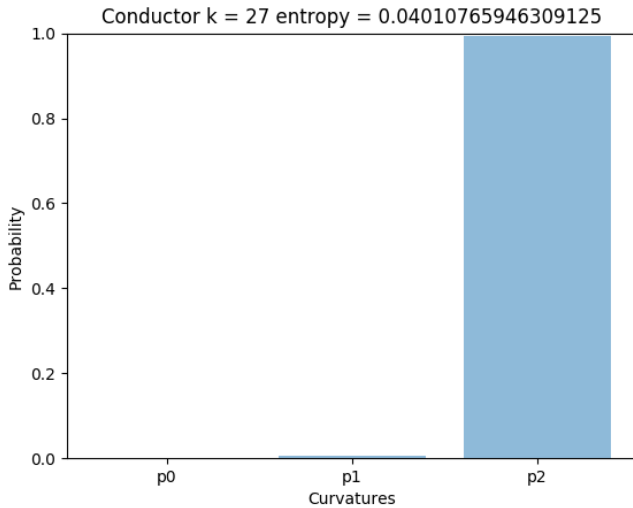
Conductor  $k = 24$  entropy = 0.04965624968912228

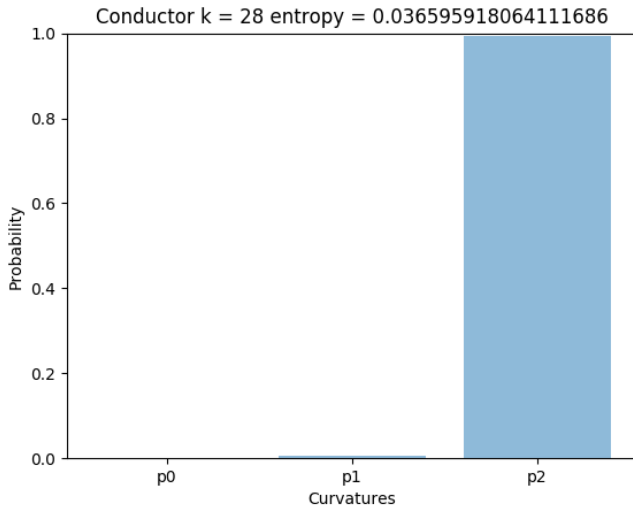




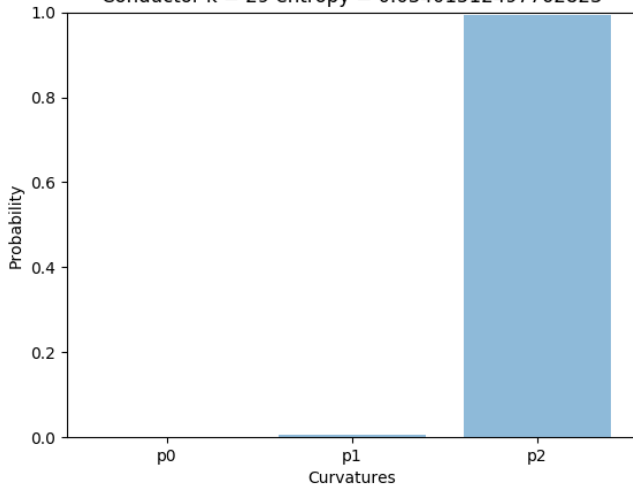
Conductor  $k = 26$  entropy = 0.0434574634626665



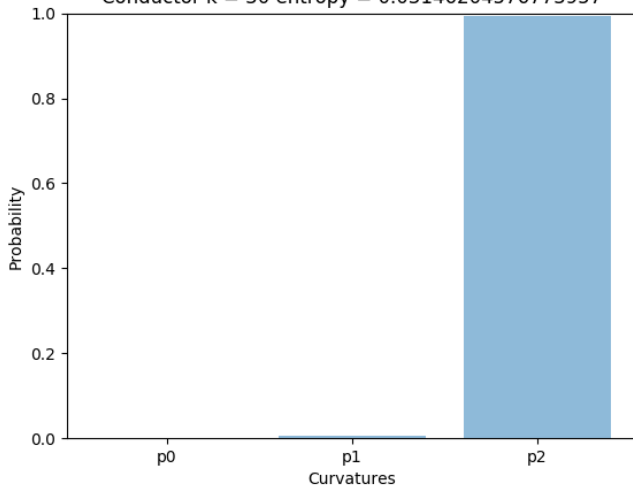


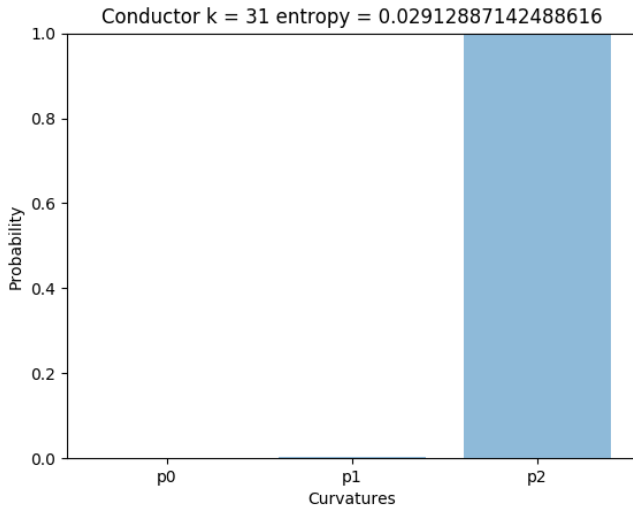


Conductor  $k = 29$  entropy = 0.03401512497762823

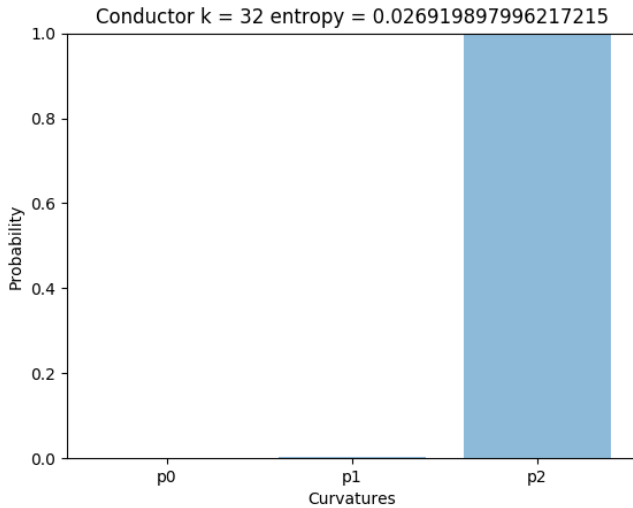


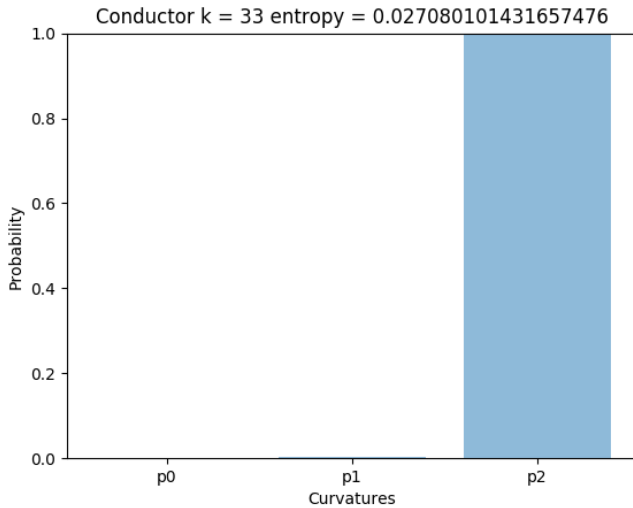
Conductor  $k = 30$  entropy = 0.03146204576773957



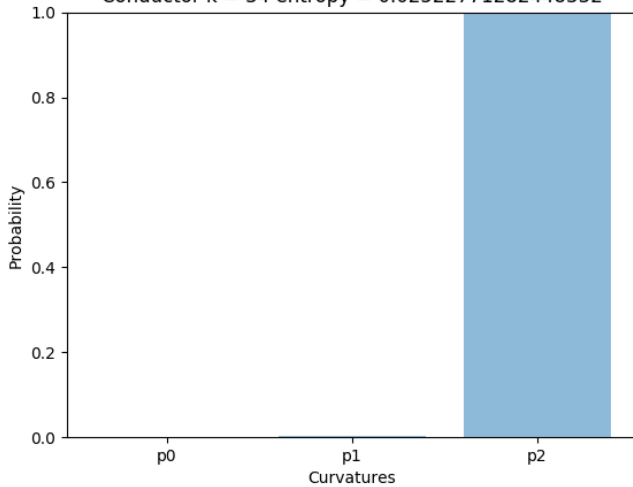


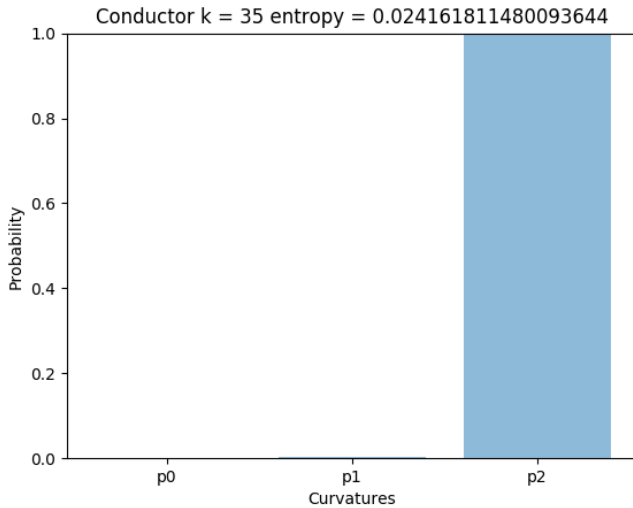


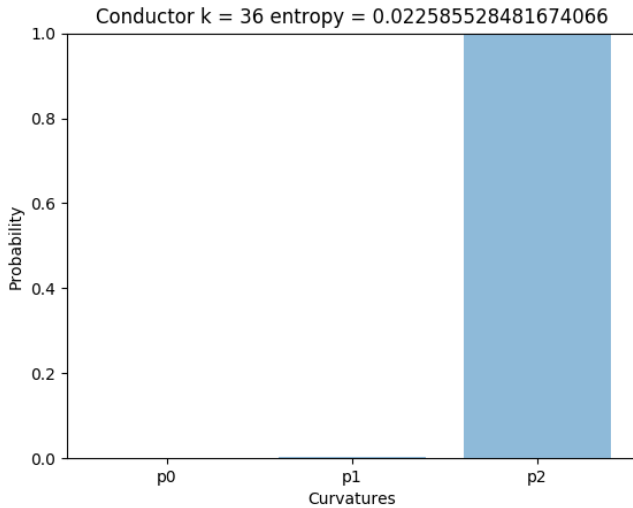


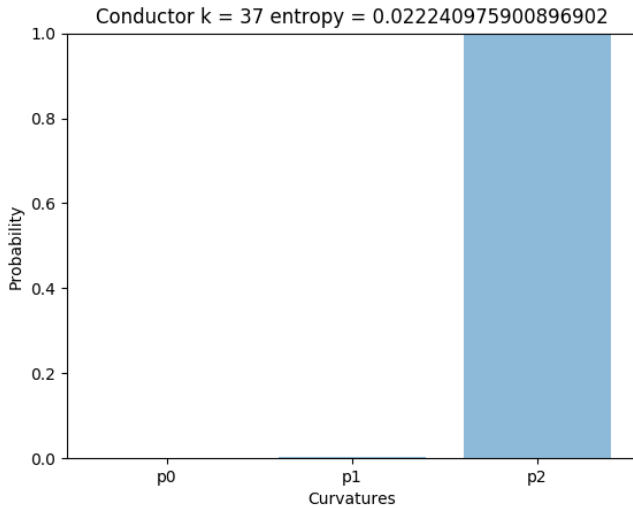


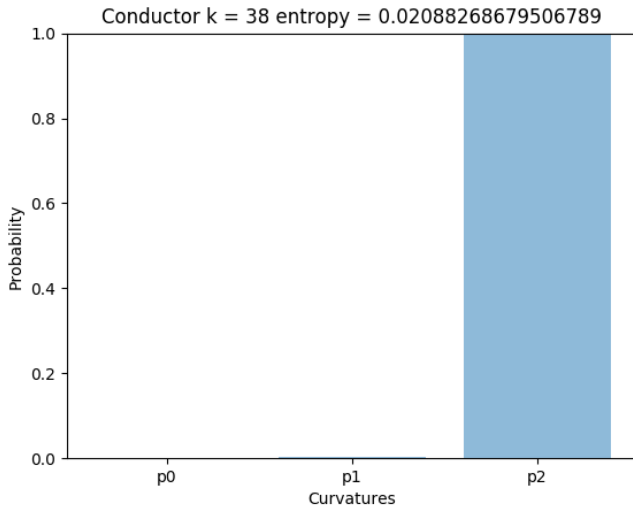
Conductor  $k = 34$  entropy = 0.02522771282448332

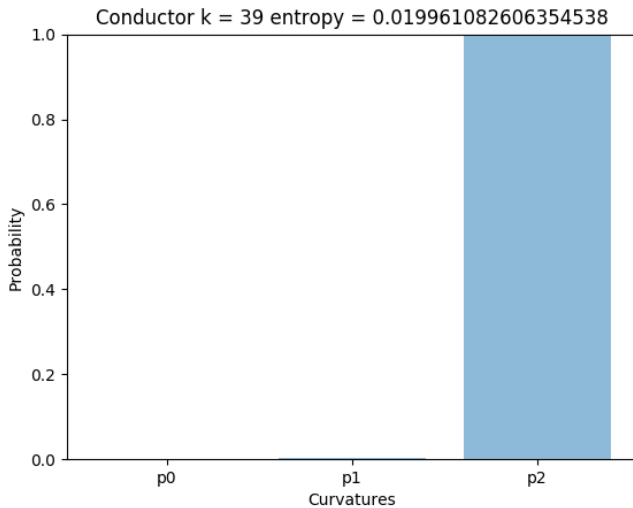




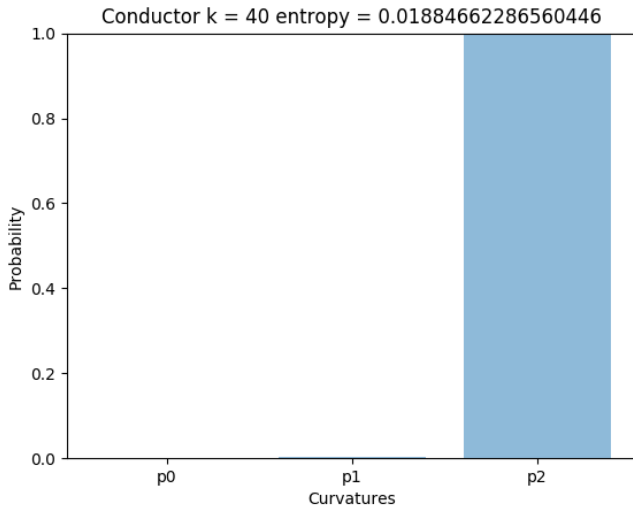


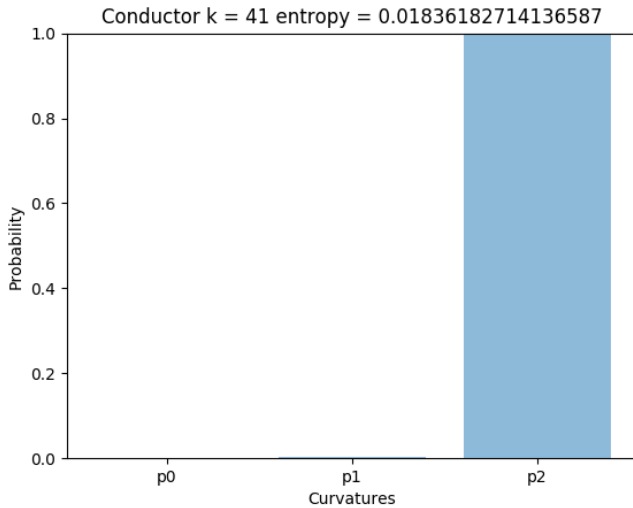


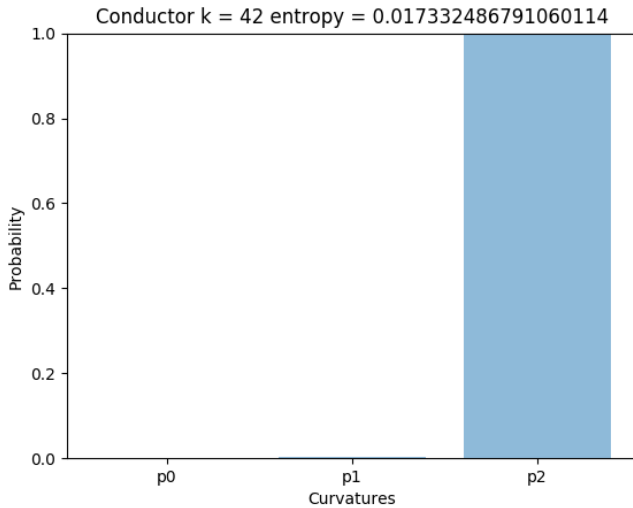


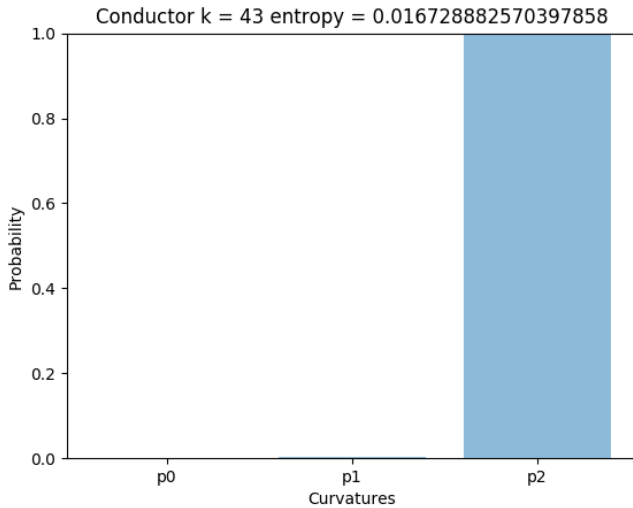


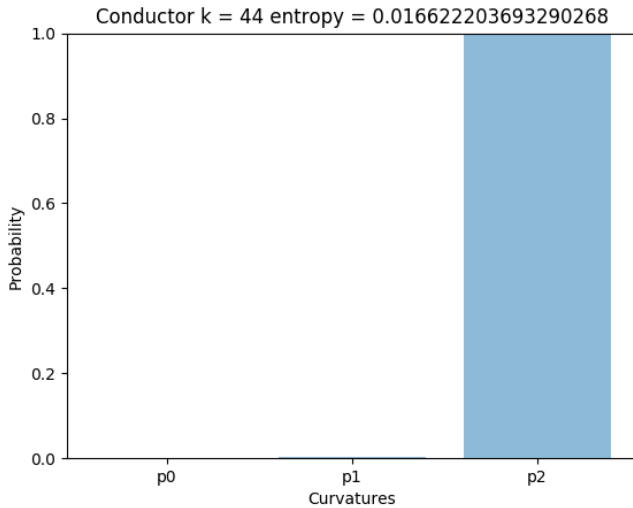


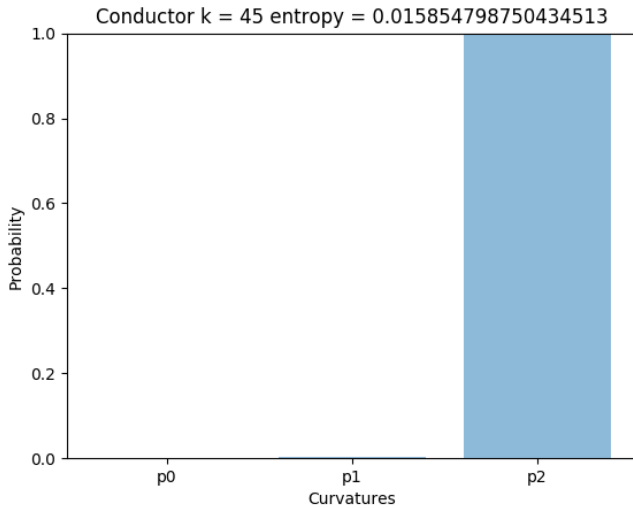


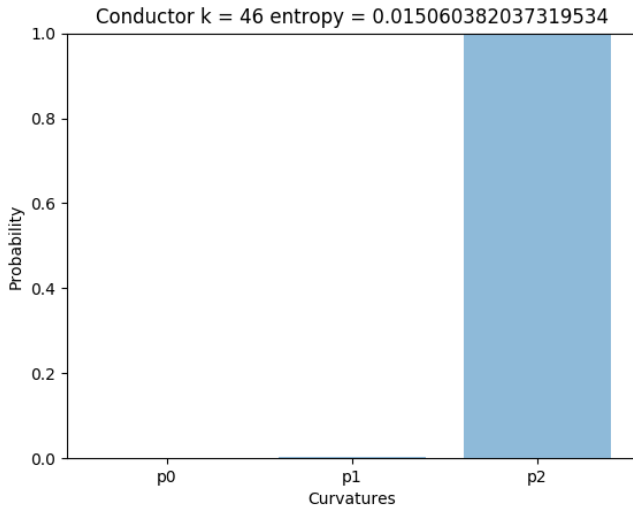


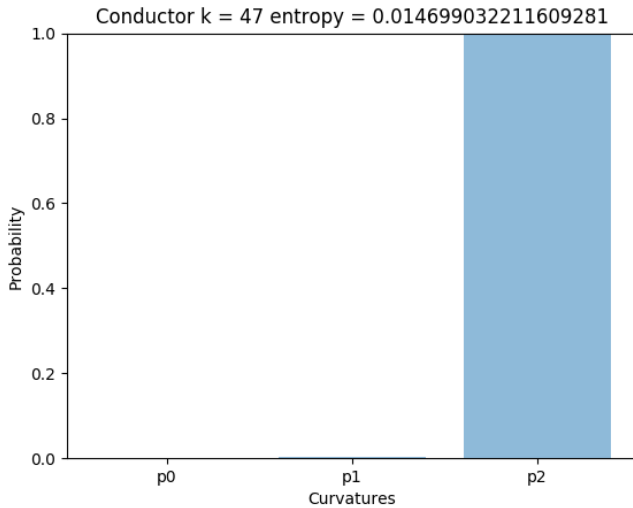




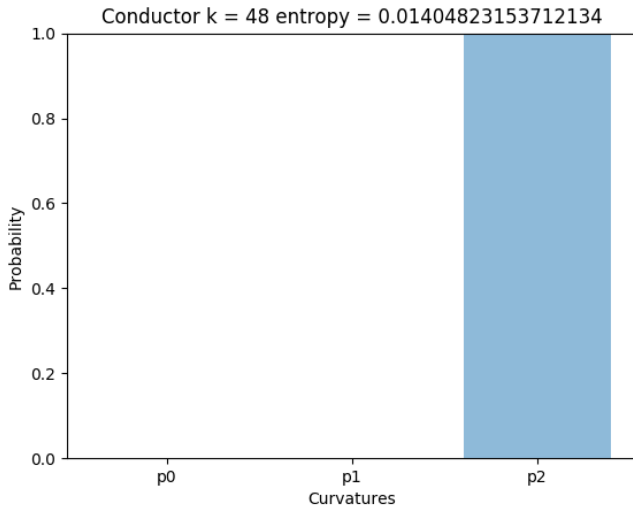


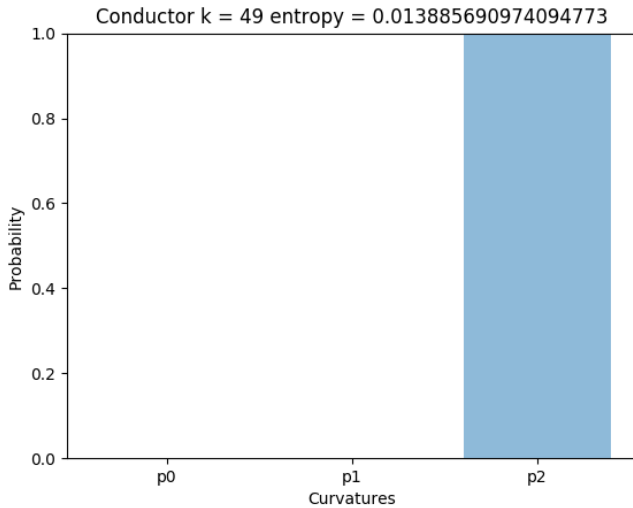


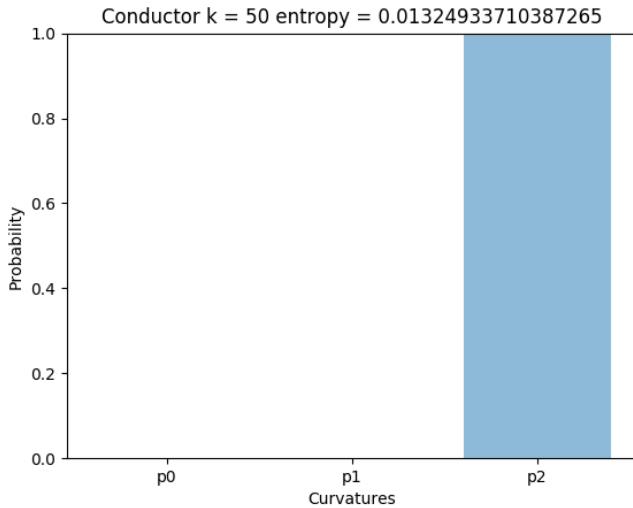


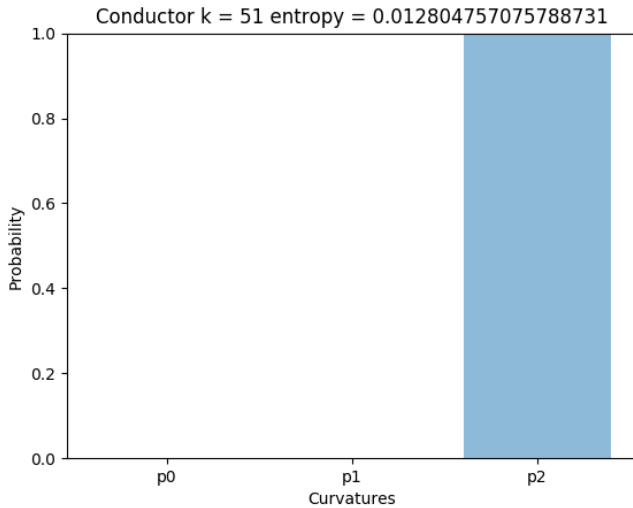


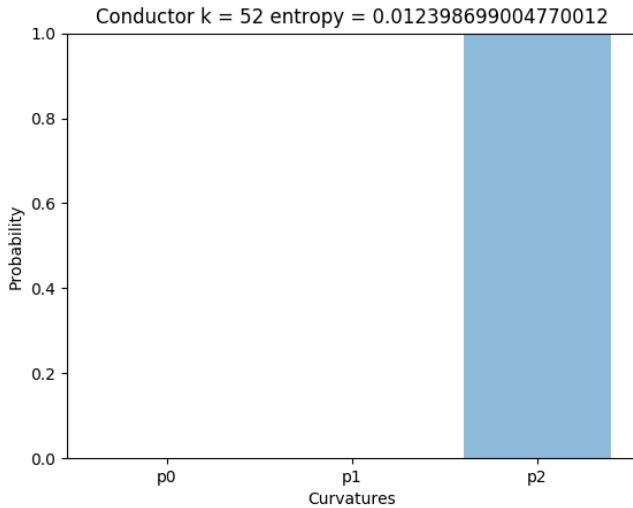


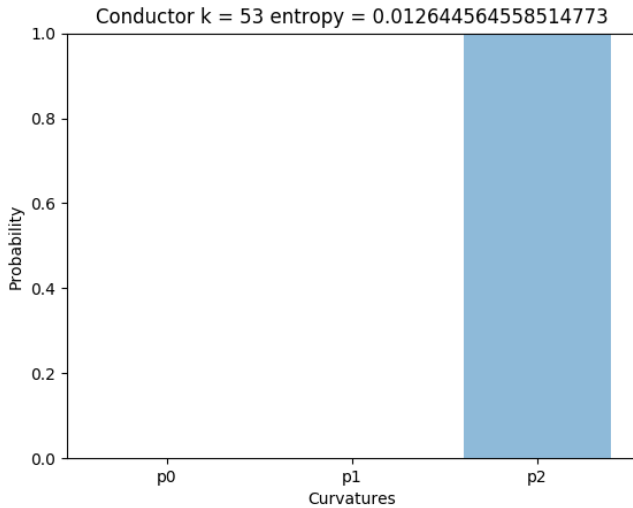


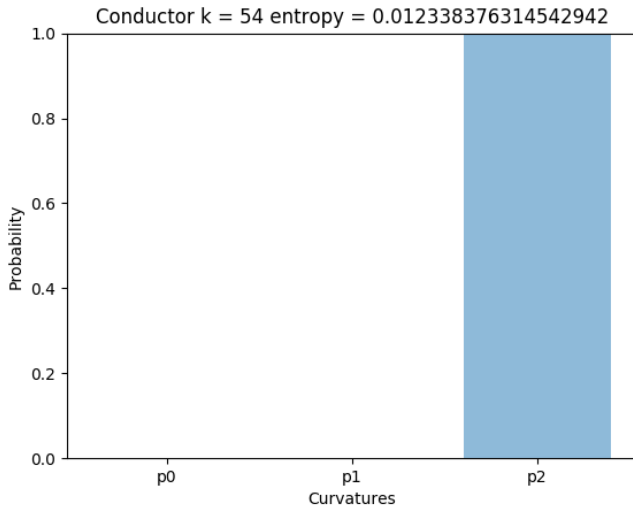




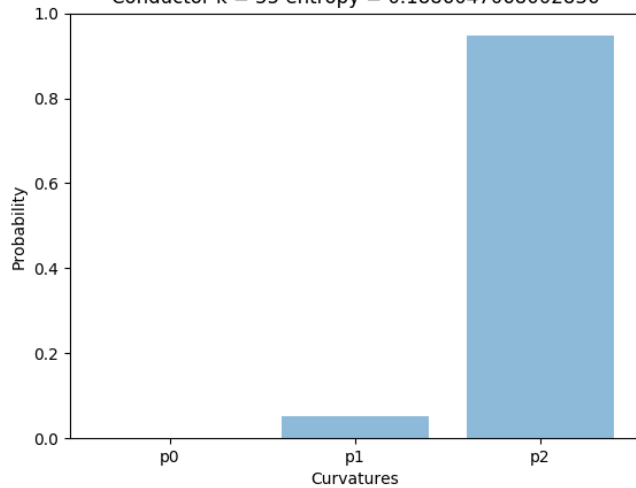






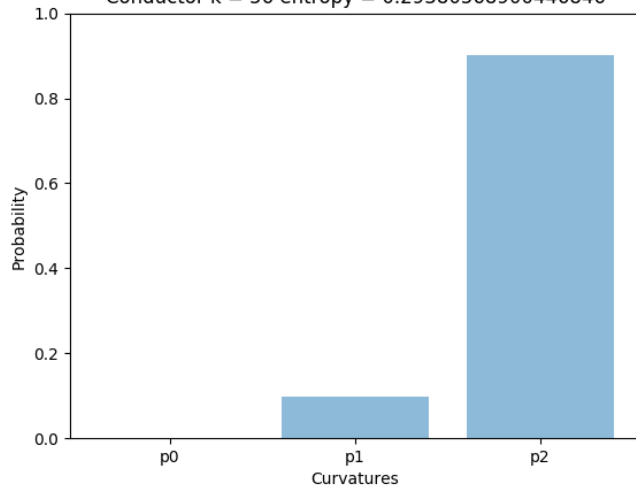


Conductor  $k = 55$  entropy = 0.1886047068002836

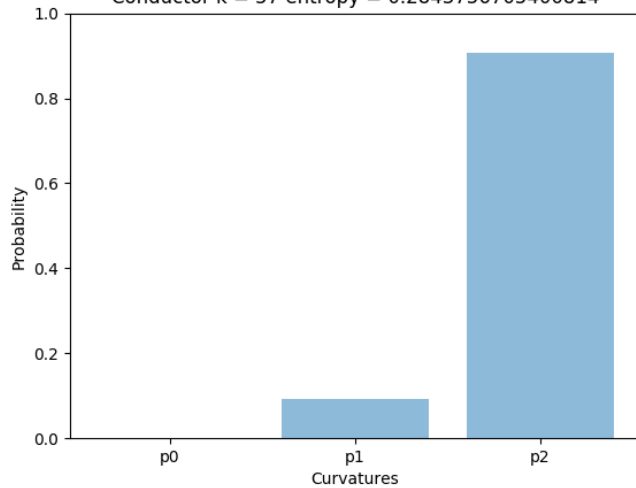




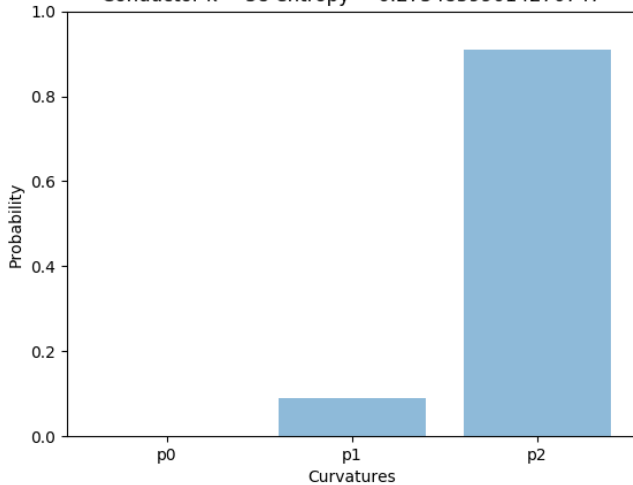
Conductor  $k = 56$  entropy = 0.29380568900446846



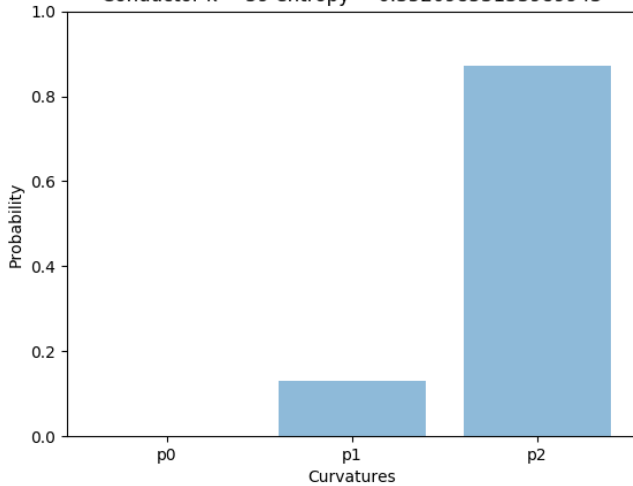
Conductor  $k = 57$  entropy = 0.2843756705400814



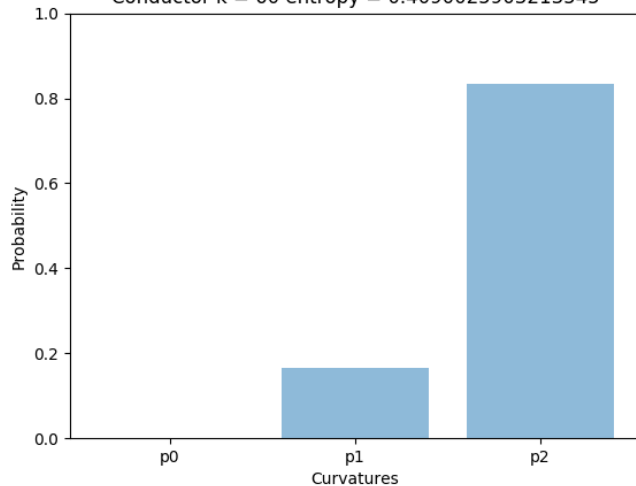
Conductor  $k = 58$  entropy = 0.27548599014270747



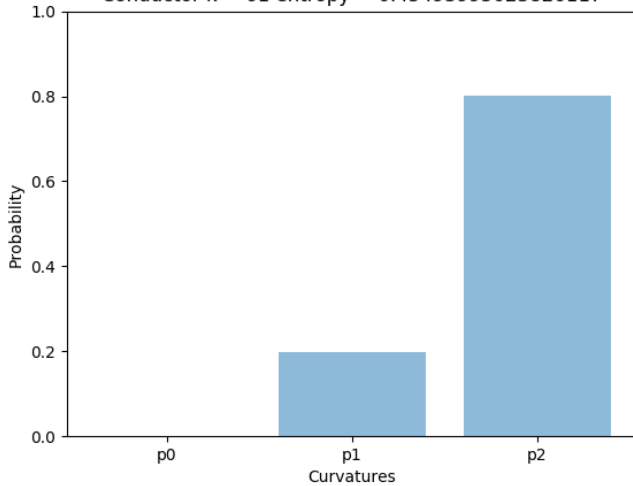
Conductor  $k = 59$  entropy = 0.35209853133989943



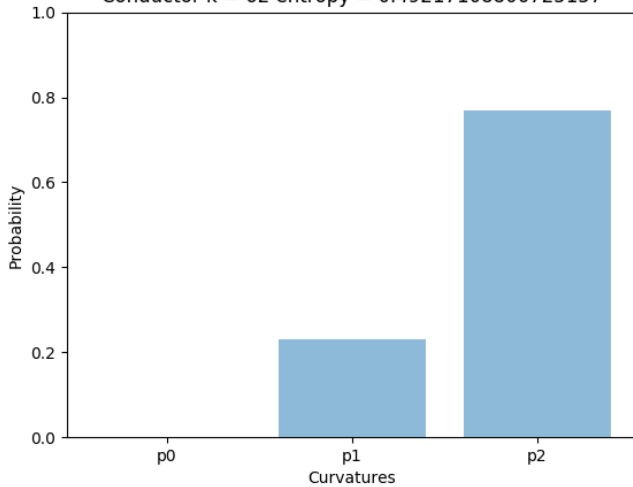
Conductor  $k = 60$  entropy = 0.4090025903213545



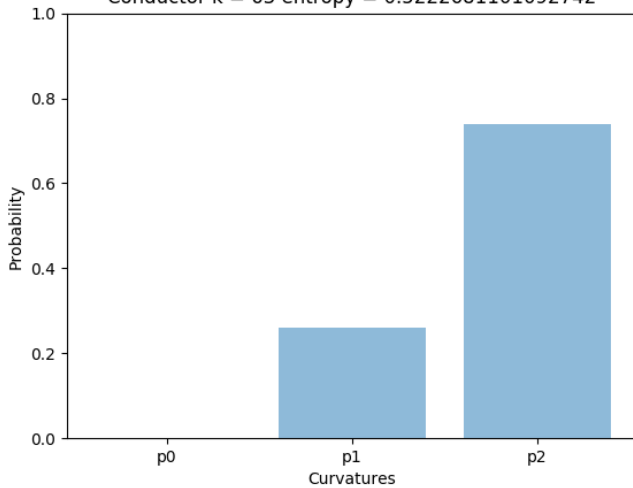
Conductor  $k = 61$  entropy = 0.45493995023826117



Conductor  $k = 62$  entropy = 0.49217108806725157

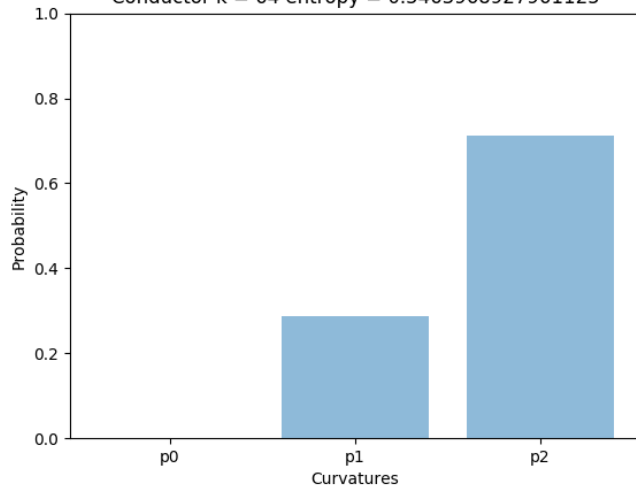


Conductor  $k = 63$  entropy = 0.5222681101092742

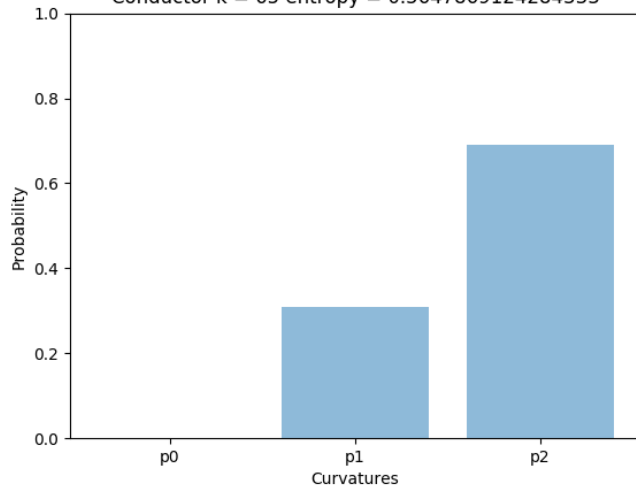




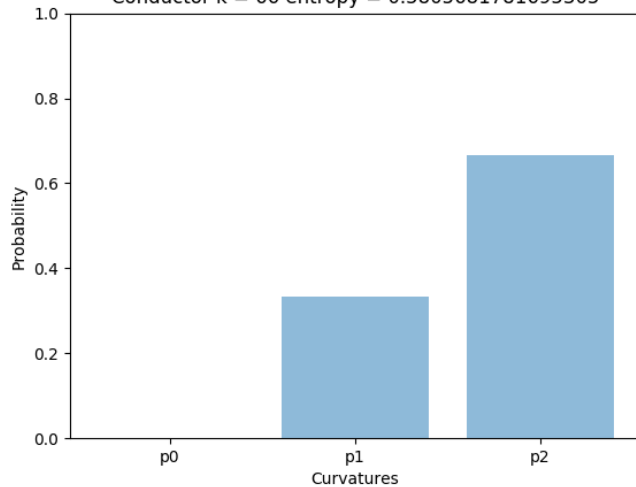
Conductor  $k = 64$  entropy = 0.5463968927961125

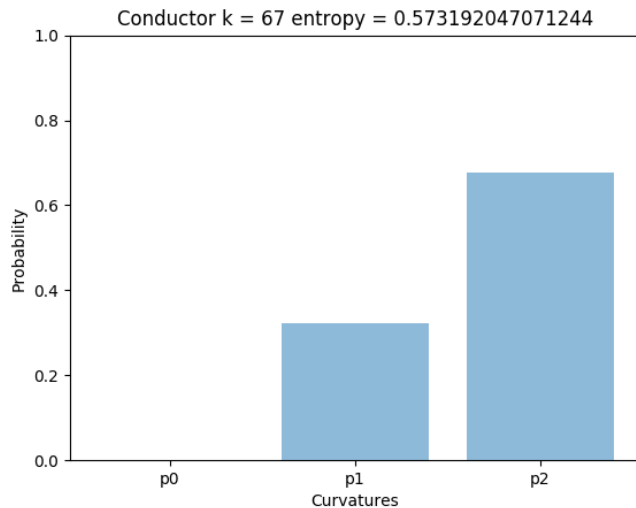


Conductor  $k = 65$  entropy = 0.5647869124284333

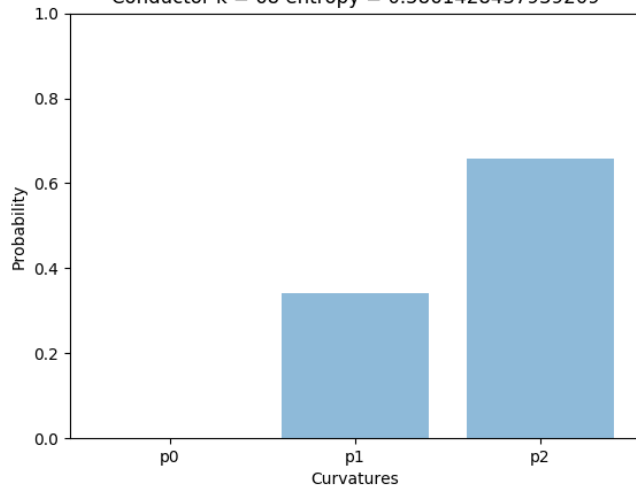


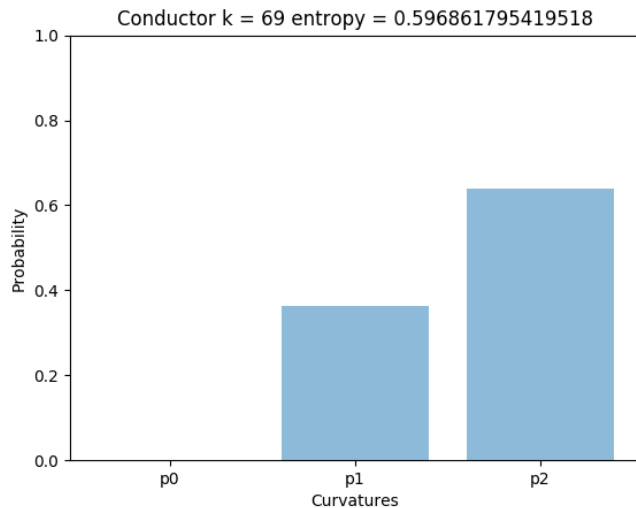
Conductor  $k = 66$  entropy = 0.5805681781695305



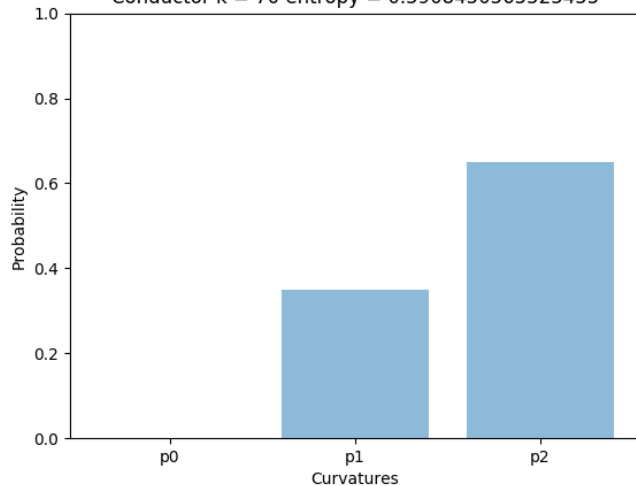


Conductor  $k = 68$  entropy = 0.5861428437939209

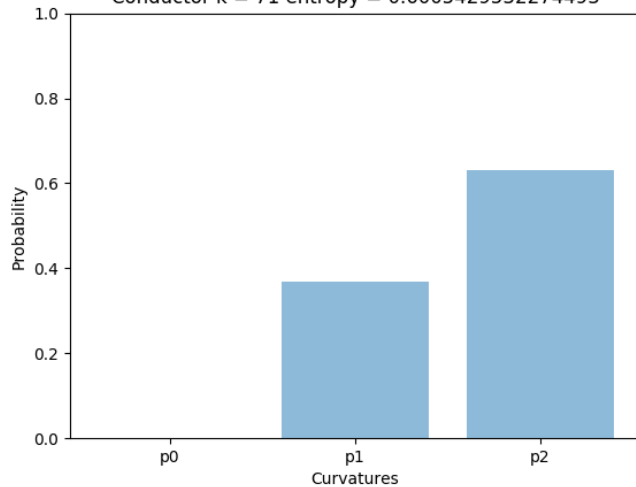




Conductor  $k = 70$  entropy = 0.5908450565525455

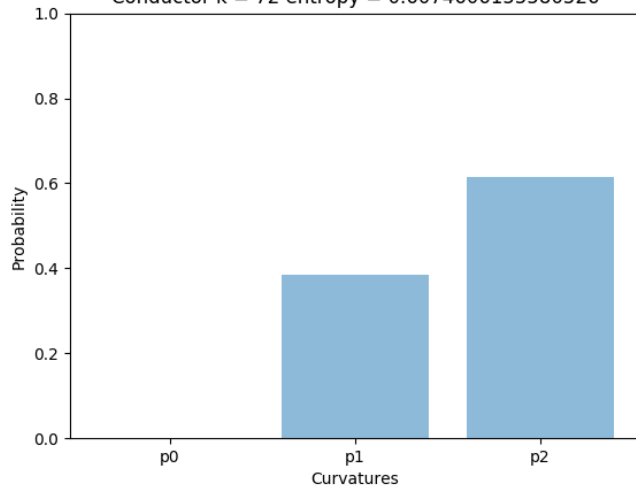


Conductor  $k = 71$  entropy = 0.6005429532274493

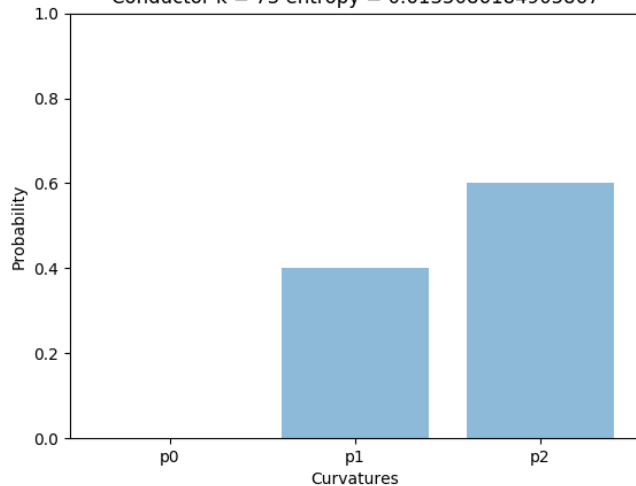




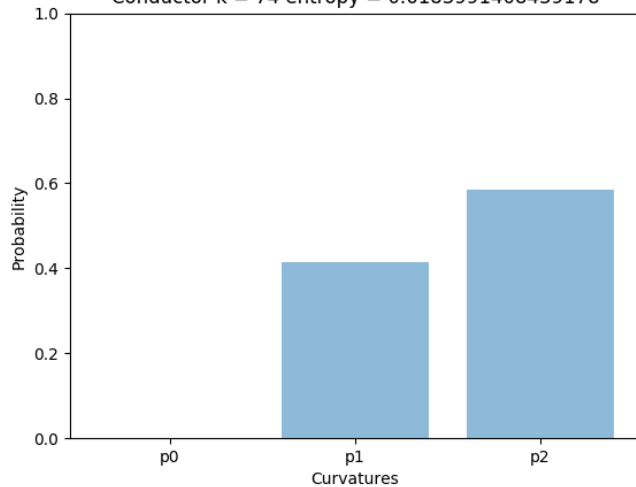
Conductor  $k = 72$  entropy = 0.6074606155580526



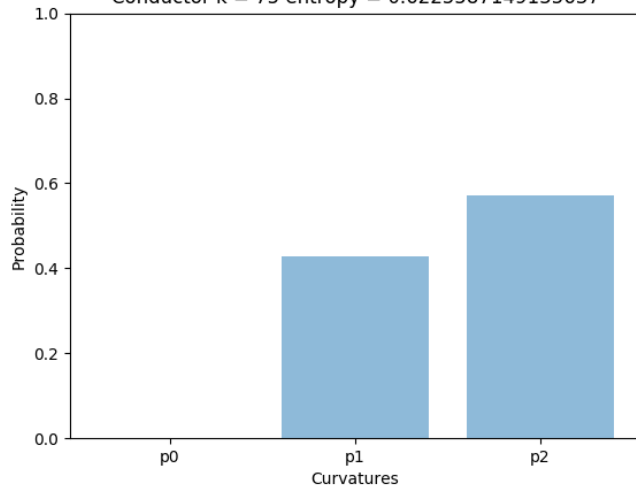
Conductor  $k = 73$  entropy = 0.6135086184905867



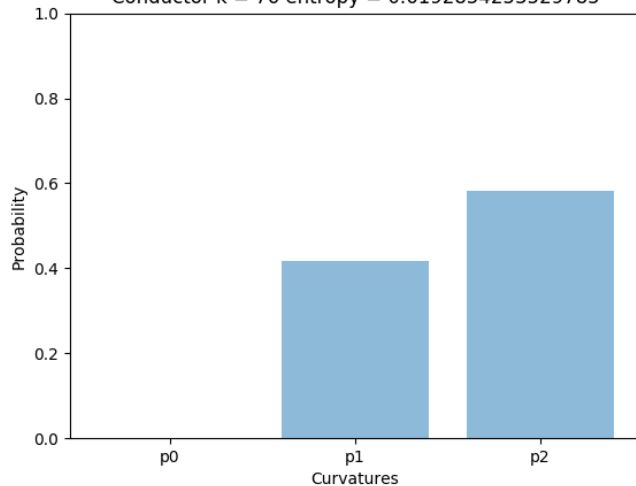
Conductor  $k = 74$  entropy = 0.6183991408439178

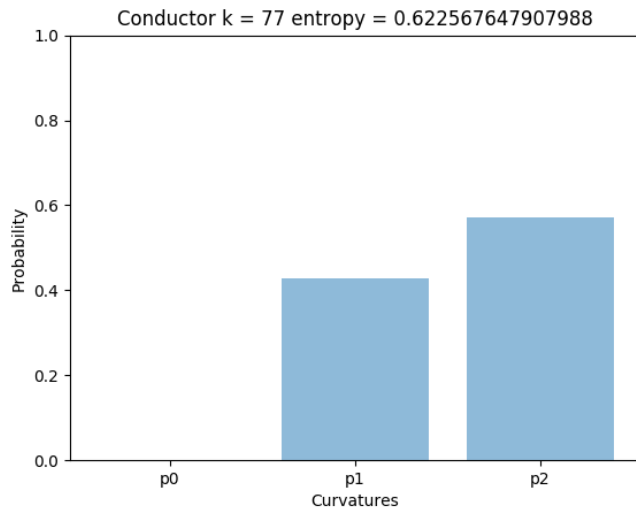


Conductor  $k = 75$  entropy = 0.6225587149135637

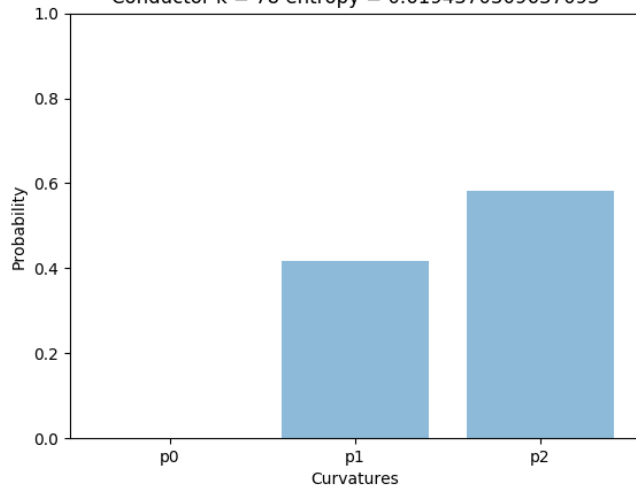


Conductor  $k = 76$  entropy = 0.6192854253529785

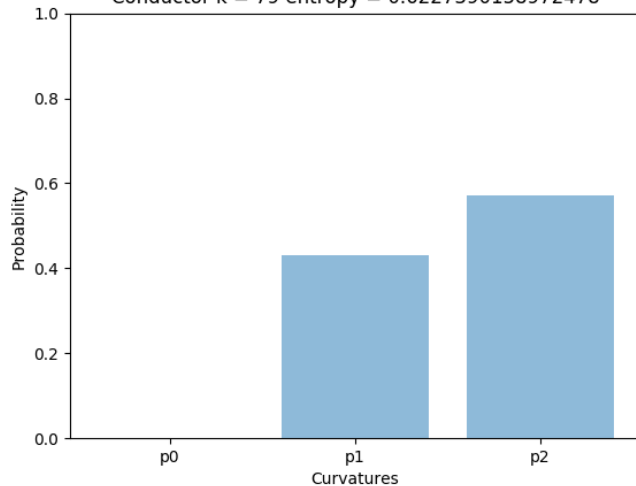




Conductor  $k = 78$  entropy = 0.6194370309637095

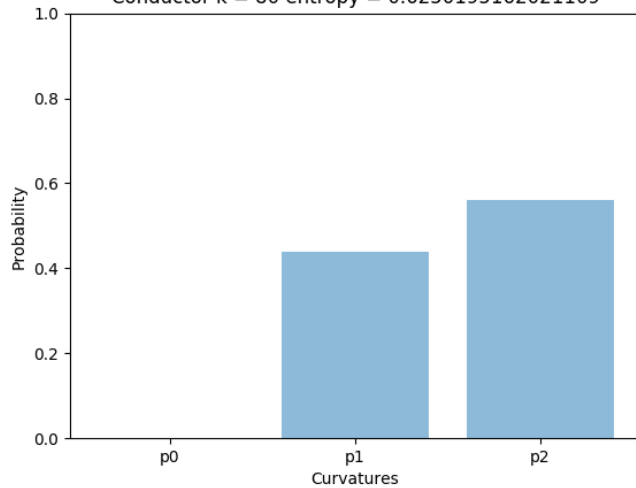


Conductor  $k = 79$  entropy = 0.6227390158972478

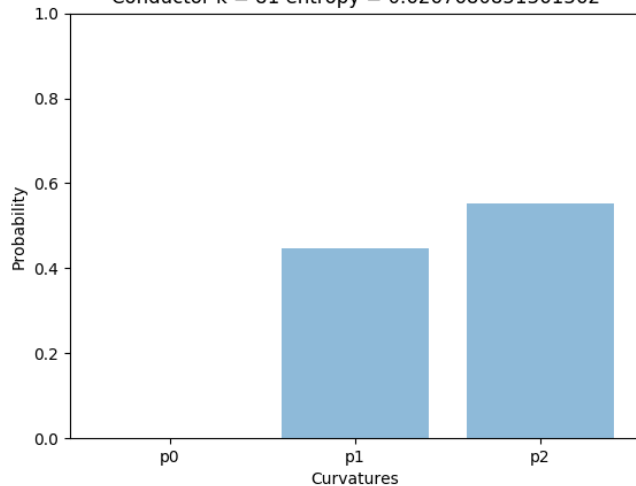




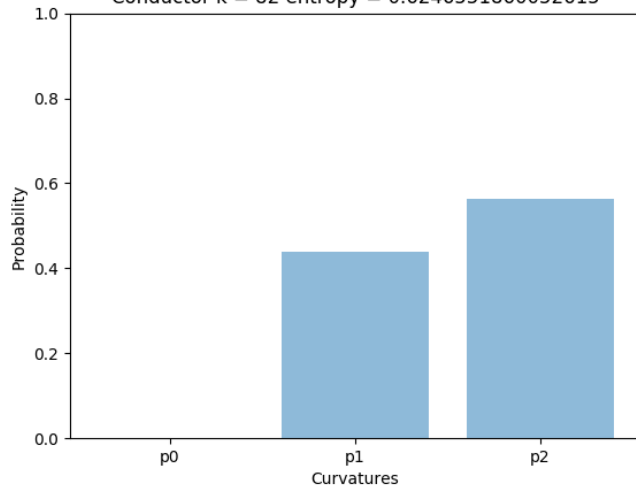
Conductor  $k = 80$  entropy = 0.6250195162021109



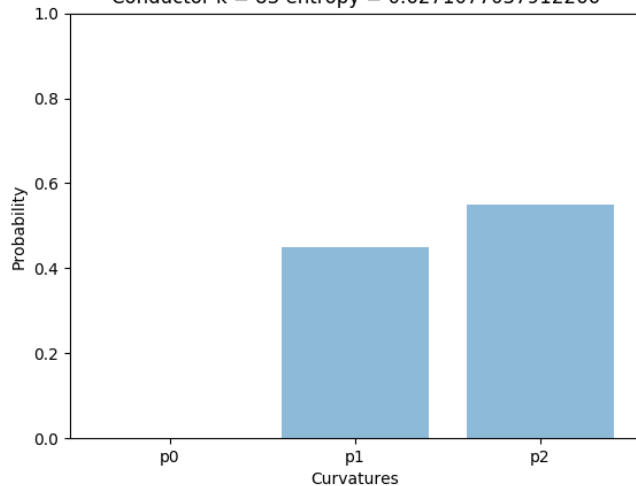
Conductor  $k = 81$  entropy = 0.6267680851361362



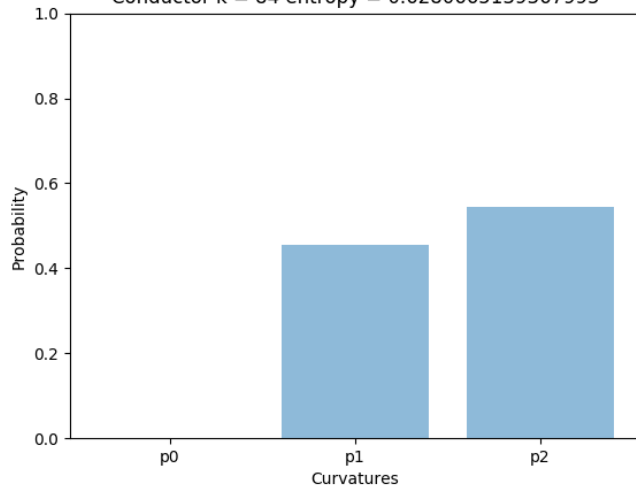
Conductor  $k = 82$  entropy = 0.6246551860052615



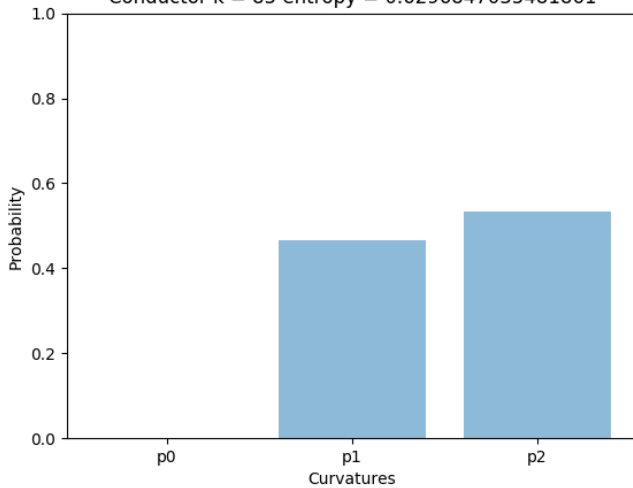
Conductor  $k = 83$  entropy = 0.6271077037912266

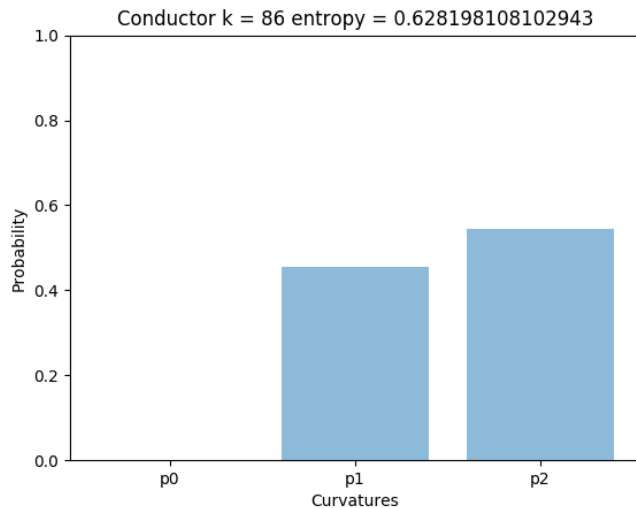


Conductor  $k = 84$  entropy = 0.6280665139367995

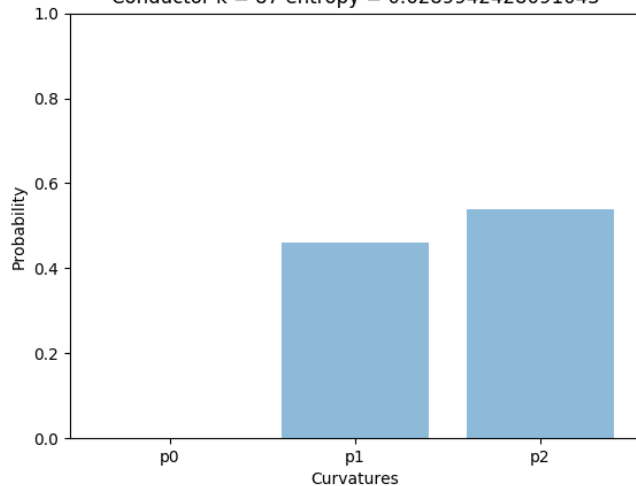


Conductor  $k = 85$  entropy = 0.6296847035481861



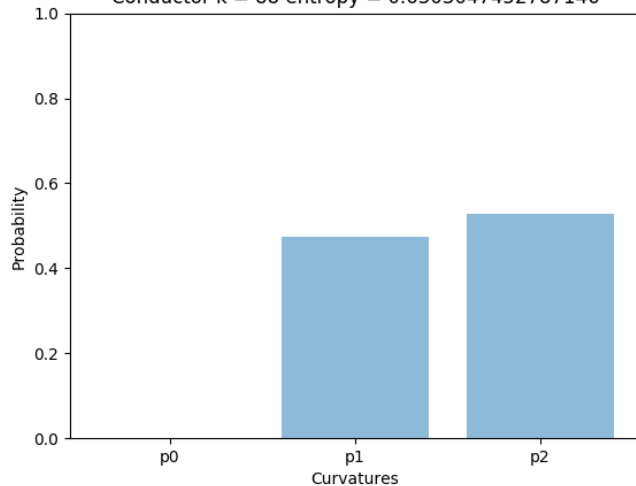


Conductor  $k = 87$  entropy = 0.6289942428091043

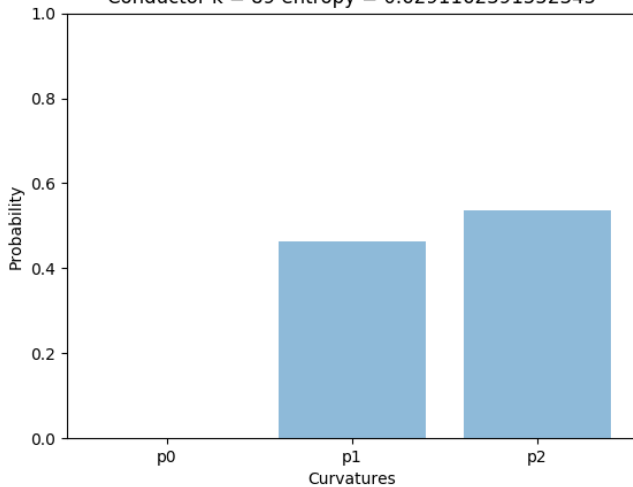




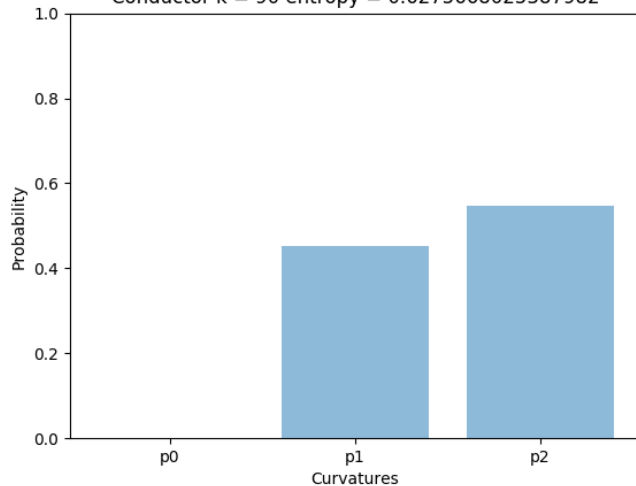
Conductor  $k = 88$  entropy = 0.6303047452787146



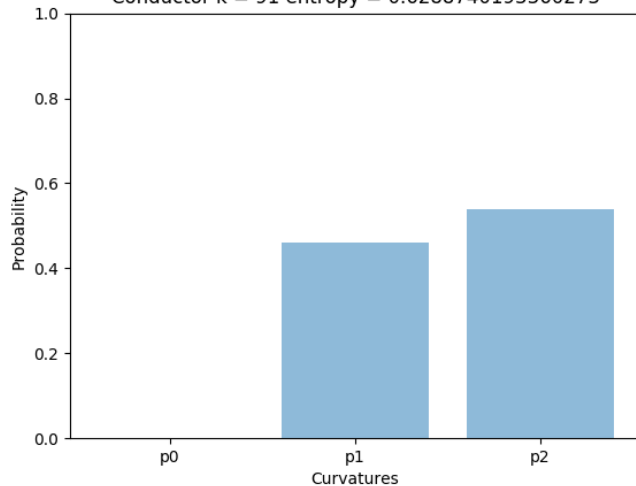
Conductor  $k = 89$  entropy = 0.6291162391552345



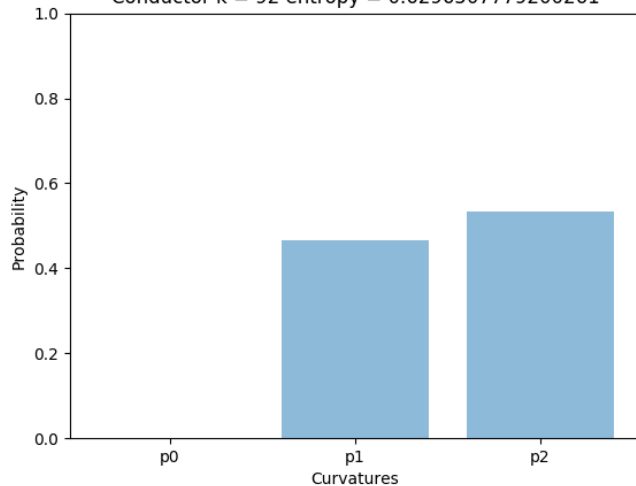
Conductor  $k = 90$  entropy = 0.6275668025387982



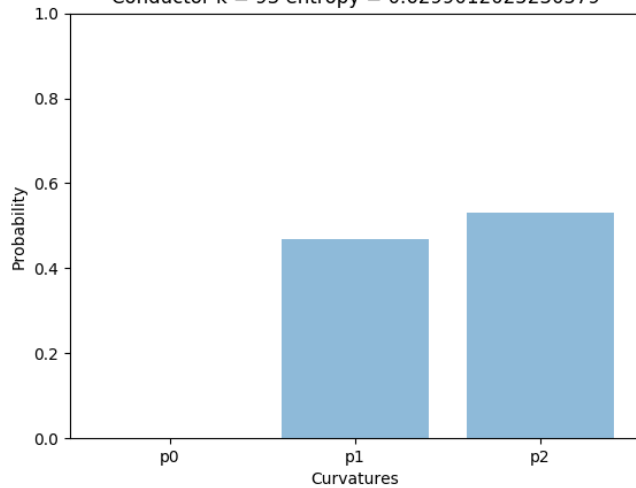
Conductor  $k = 91$  entropy = 0.6288740193360273



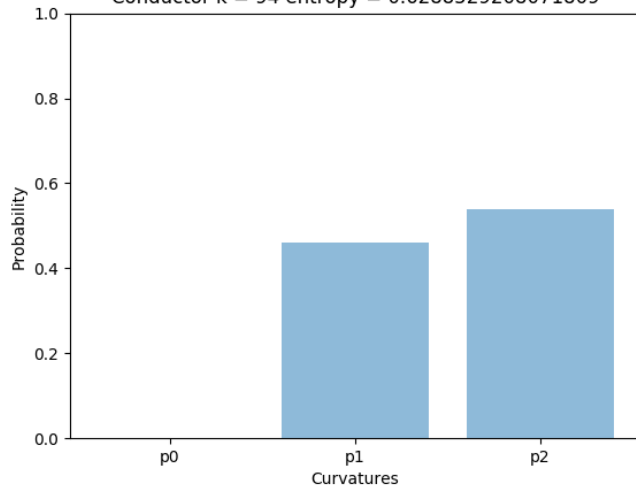
Conductor  $k = 92$  entropy = 0.6296507779200261



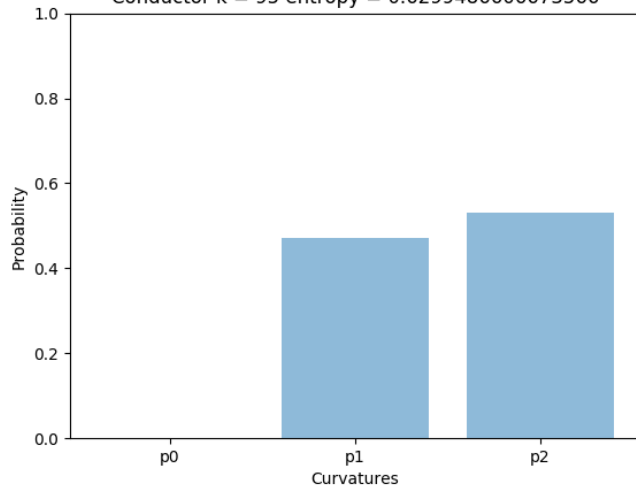
Conductor  $k = 93$  entropy = 0.6299012025230579



Conductor  $k = 94$  entropy = 0.6288529208071809

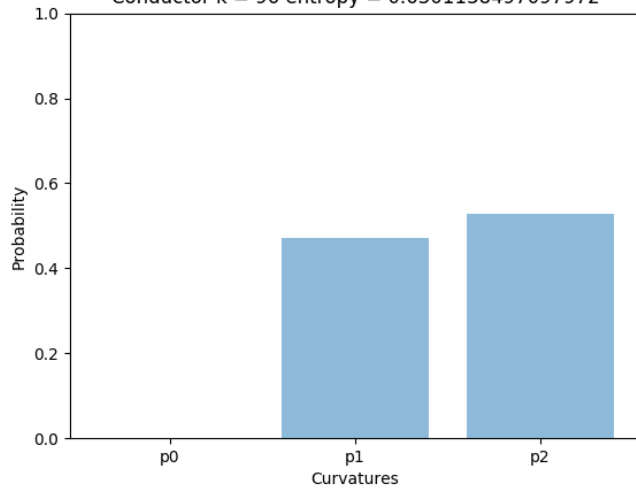


Conductor  $k = 95$  entropy = 0.6299486606673566

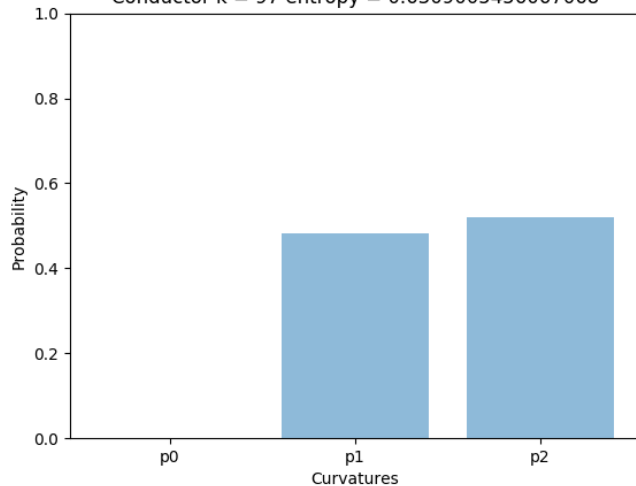




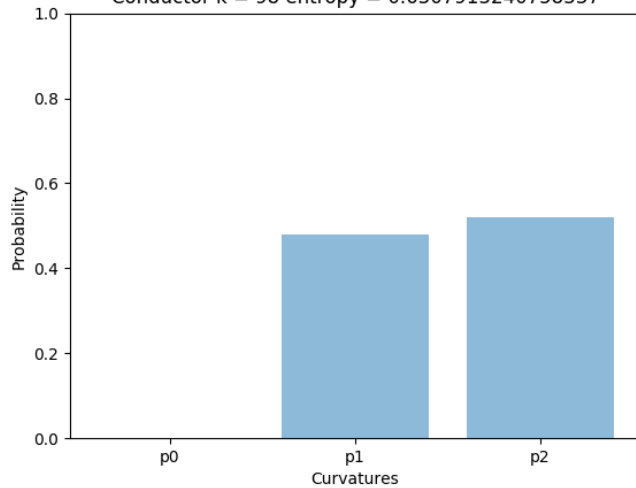
Conductor  $k = 96$  entropy = 0.6301138497097972



Conductor  $k = 97$  entropy = 0.6309005456067068



Conductor  $k = 98$  entropy = 0.6307913240758337



Conductor  $k = 99$  entropy = 0.6301132298608482

