Monte Carlo techniques

- During WW2, "numerical experiments" were applied at Los Alamos for solving mathematical complications of computing fission, criticality, neutronics, hydrodynamics, thermonuclear detonation etc.

- Notable fathers: John v. Neumann Stanislav Ulam Nicholas Metropolis
- Named "Monte Carlo" after Ulam's fathers frequent visits to the Monte Carlo casino in Las Vegas
- Initially "implemented" by letting large numbers of women use tabularized random numbers and hand calculators for individual particle calculations
- Later, analogue and digital computing devices were used