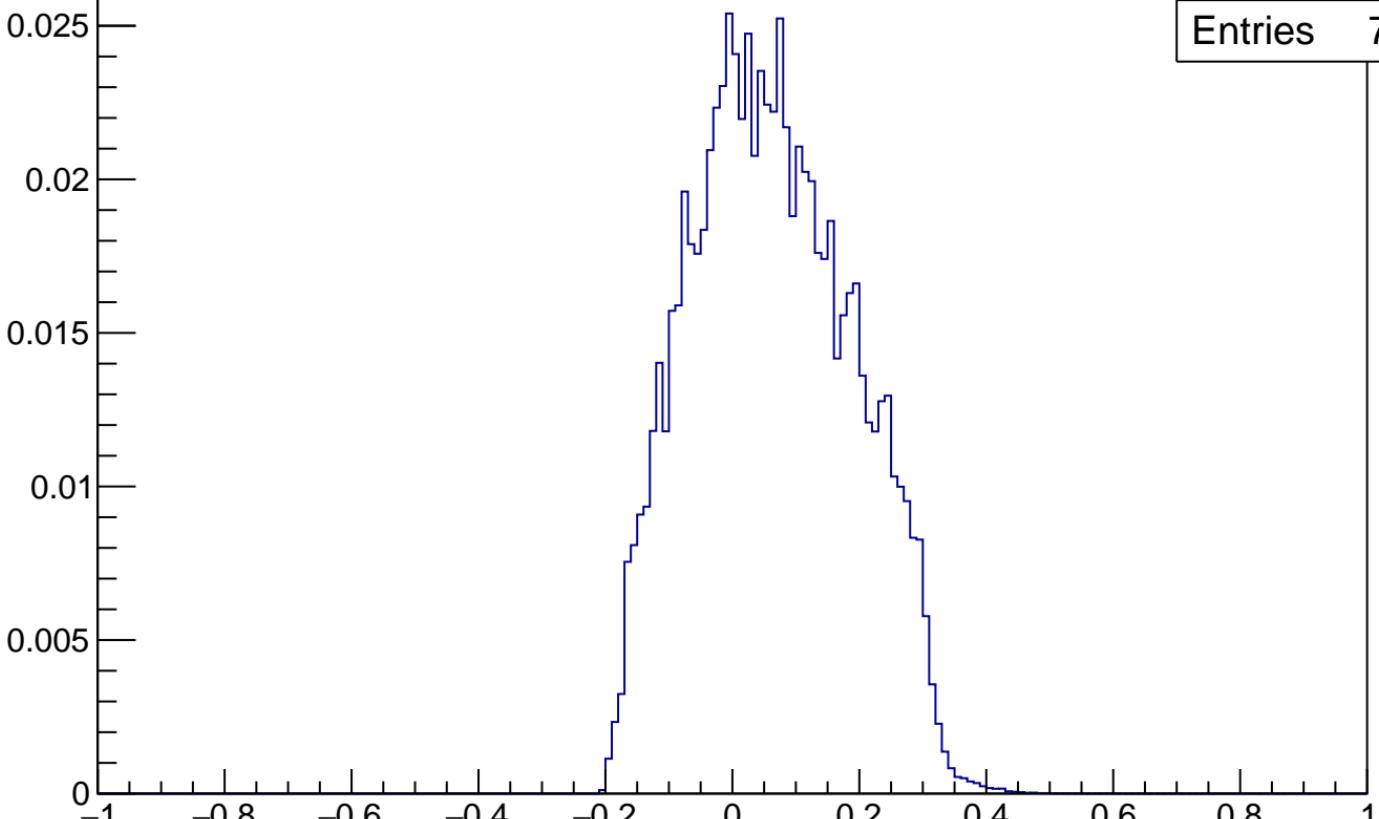Simulation and Generator Input M^2_{miss} difference in ^{12}C reference system