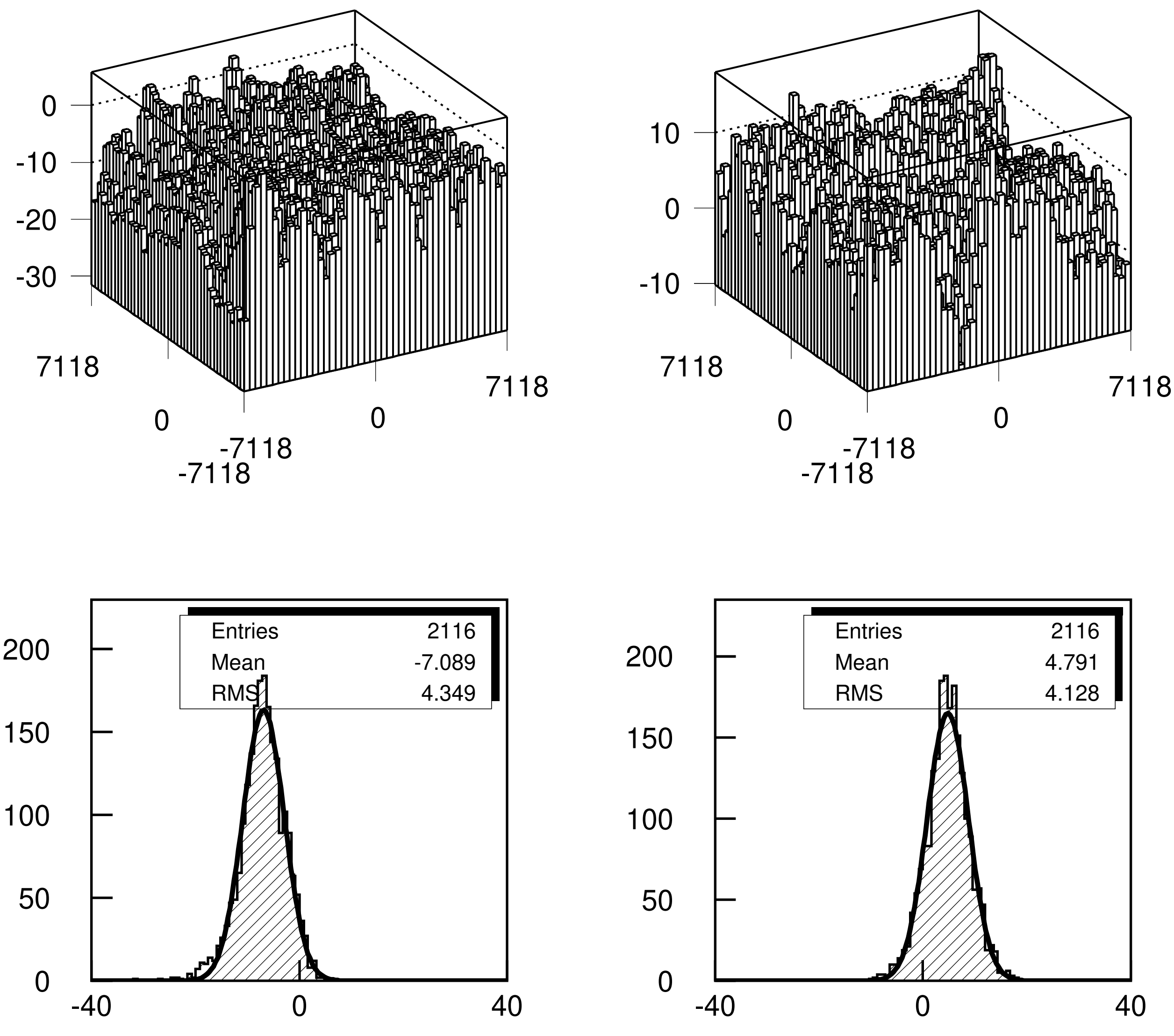
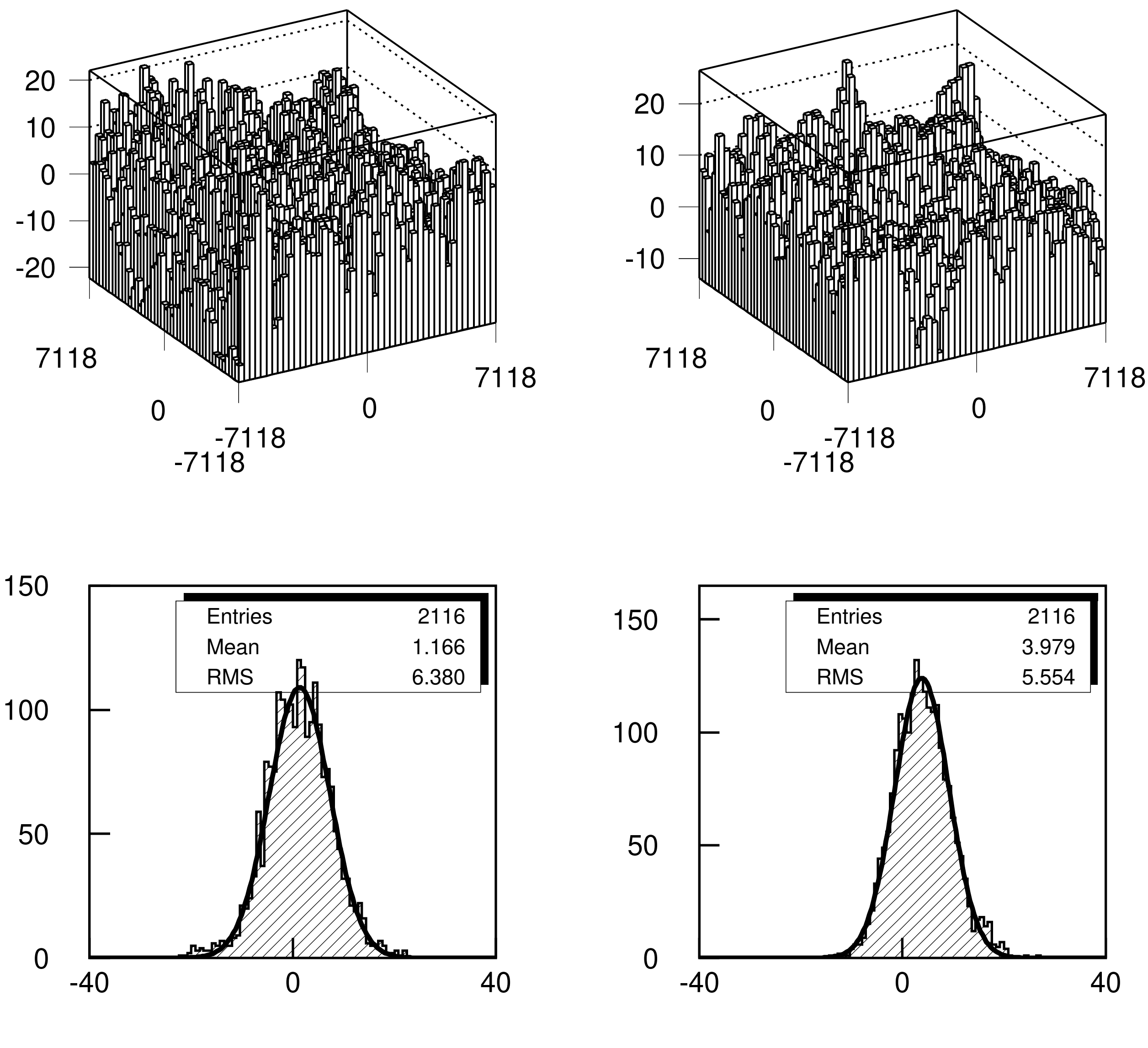
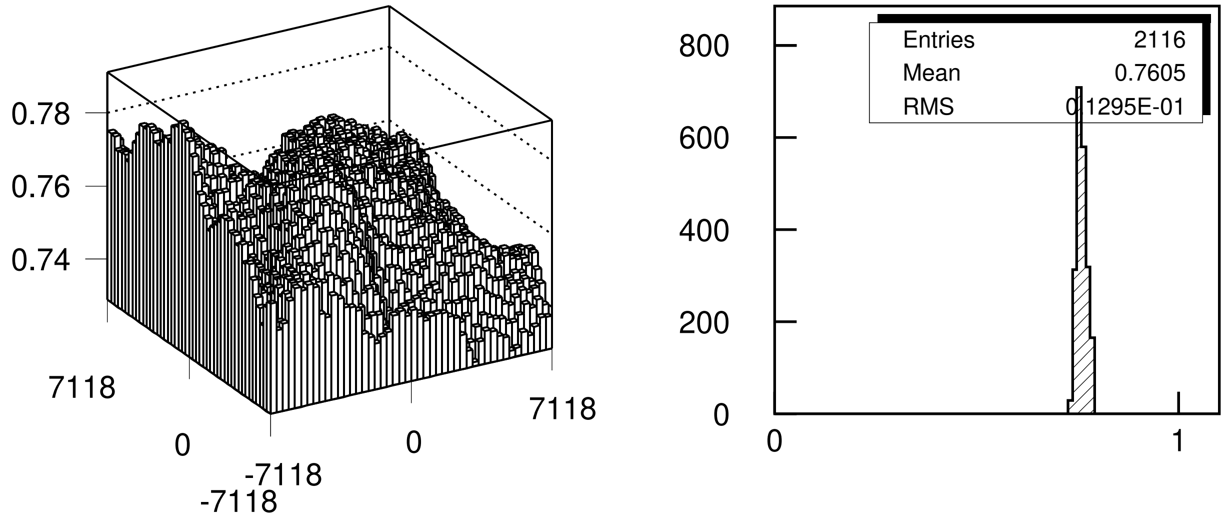
'gc'093' refraction before irradiation '



'gc'093' difference in refraction (before-after)'



transmision before irradiation



difference in transmision (before-after)