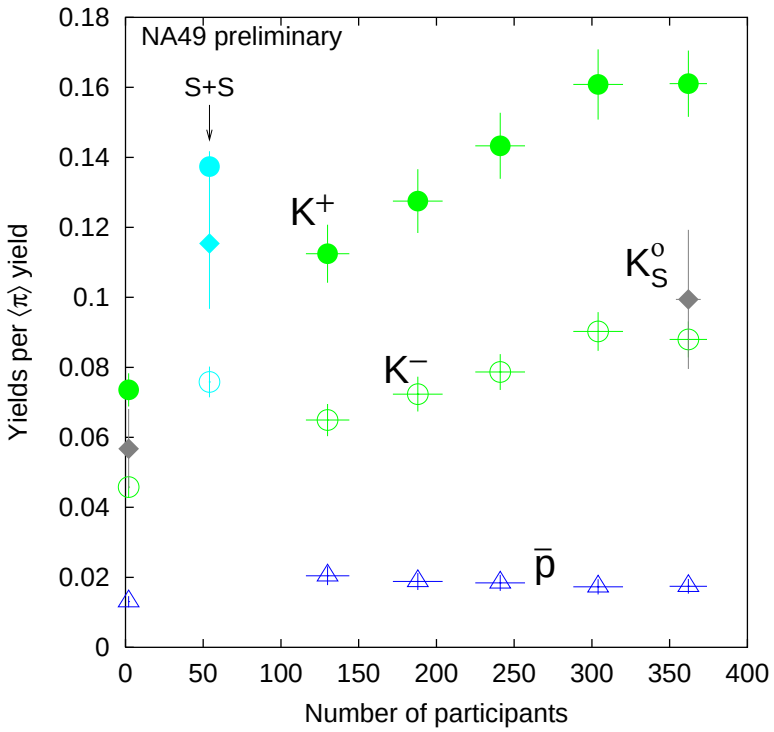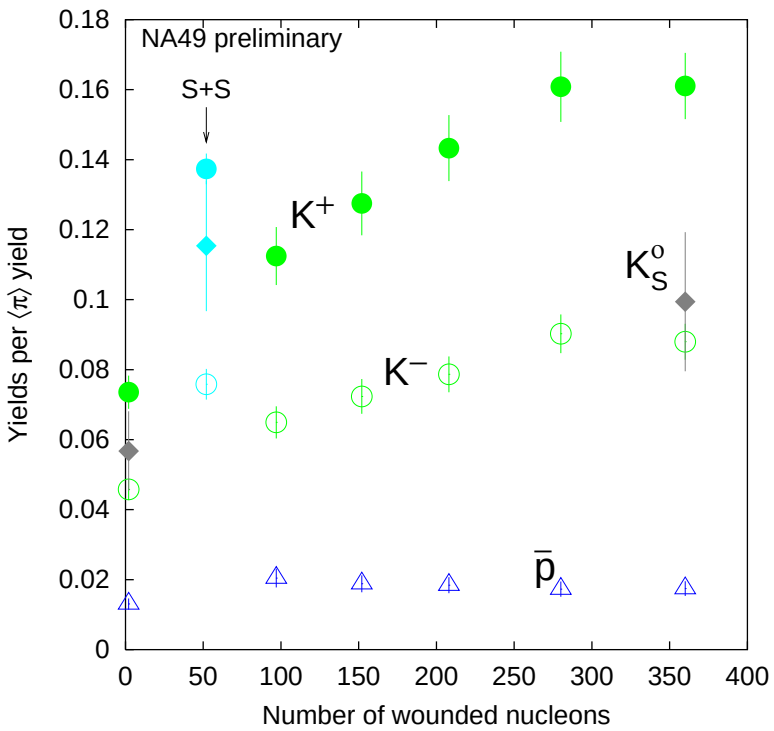centrality dependence of integrated yields/π