

Search for dark forces at DAFNE

Francesca Curciarello on behalf of KLOE-KLOE2 collaboration

University of Messina, Messina, Italy

DAΦNE ϕ -factory is an ideal place to search for forces beyond the Standard Model. By using the KLOE detector, limits on U-boson coupling ε^2 of the order of $10^{-5} - 10^{-8}$ have been set through the study of the ϕ Dalitz decay, the Higgsstrahlung process and $U\gamma$ events. An improvement of these limits is expected thanks to KLOE detector and DAΦNE upgrades for the next KLOE2 runs.