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Study of long distance contributions in the exclusive rare radiative B_c decay

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The rare decays of the B_c meson induced by the flavour changing neutral current $c \rightarrow u$ transition are strongly suppressed by the Glashow-Iliopoulos-Maiani mechanism in SM. Therefore, they exhibit sensitivity to new physics effects, as long as the impacts from long-distance contributions can be controlled. The difficulty is to get rid of these hadronic effects. I will present a study of such effects in radiative B_c transitions both to B and to the axial-vector B_1' mesons, aiming to determine which channel offers better potential for probing new physics.

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Session Classification: Poster session with snacks and coffee