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Selected implications of an R-scan between 3GeV and 4.5GeV for charm physics

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Precise determinations of the cross section between 3 GeV and 4.5GeV as planned in the near future at BESS III can provide an important input for an improved determination of the charmed quark mass. The necessary experimental and theoretical ingredients are presented. As a second topic the possibilities for direct resonant production of χ_{c1} and χ_{c2} in electron-positron annihilation at BESS III will be explored and possible backgrounds will be studied.

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