Vector D and B mesons in asymmetric and hot dense medium.
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Technology — We calculate the effect of density and temperature of isospin asymmetric non-strange medium on the shift in masses and decay constants of vector
D and B mesons using chiral SU(3) model and QCD sum rule approach. In the
present investigation the values of quark and gluon condensates are calculated from
the chiral SU(3) model and these condensates are further used as input in the QCD
Sum rule framework. These condensates are further used to calculate the in medium
masses and decay constants of vector D and B mesons. These in medium properties
of vector D and B mesons are helpful to understand the experimental observables
of the experiments like CBM and PANDA under FAIR project at GSI, Germany.
The results which are observed in present work are also compared with the previous
predictions. .

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