

# List of Publications

This thesis is based on the following publications:

1. Dinesh Kumar, **Jyoti Saini**, Shireen Gangal, Sanjeeda Bharati Das, ”*Probing new physics through  $B_s^* \rightarrow \mu^+ \mu^-$  decay*”, Phys. Rev. D **97**, 035007 (2018). (IF:4.83)
2. Suman Kumbhakar, **Jyoti Saini**, ”*New physics effects in purely leptonic  $B_s^*$  decays*”, Eur. Phys. J. C, **79**, 394 (2019). (IF:5.64)
3. **Jyoti Saini**, Dinesh Kumar, Shireen Gangal, Sanjeeda Bharati Das, ”*Probing Signatures of Beyond Standard Model Physics Through  $B_s^* \rightarrow \mu^+ \mu^-$  decay*”, Springer Proc. Phys. **234** (2019) 479-482.
4. Suman Kumbhakar, **Jyoti Saini**, ” *$B_s^* \rightarrow l^+ l^-$  decays in light of recent  $B$  anomalies*”, 23rd DAE-BRNS High Energy Physics Symposium 2018 [arXiv: 1907.01305 [hep-ph]].
5. Suman Kumbhakar, **Jyoti Saini**, ”*Flavor signatures of complex anomalous  $tcZ$  couplings*”, Eur. Phys. J. Plus **135**, 330 (2020). (IF:3.23)
6. Ashutosh Kumar Alok, Suman Kumbhakar, **Jyoti Saini** and S Uma Sankar, ”*New physics in  $b \rightarrow se^+e^-$ : A model independent analysis*”, Accepted for publication in Nuclear Physics B. (IF: 2.82)

