



Umar Sohail Qureshi

Ph.D. Student in Physics, admitted Autumn 2025

Bio

LINKS

- Personal Website: <https://umarsqureshi.github.io/>
- InspireHEP: <https://inspirehep.net/authors/2849420?ui-citation-summary=true>

Research & Scholarship

LAB AFFILIATIONS

- Ariel Schwartzman, Schwartzman Lab (8/1/2025)
- Michael Kagan (6/15/2025)

Publications

PUBLICATIONS

- **New Herwig7 underlying event tune: From RHIC to LHC energies** *PHYSICAL REVIEW D*
Qureshi, U., Mozarsky, L., Caines, H., Elayavalli, R., Mooney, I.
2025; 112 (11)
- **Deep image reconstruction for background subtraction in heavy-ion collisions** *PHYSICAL REVIEW C*
Qureshi, U., Elayavalli, R.
2025; 112 (6)
- **Probing compressed mass spectrum supersymmetry at the high-luminosity LHC with the vector boson fusion topology** *EUROPEAN PHYSICAL JOURNAL C*
Qureshi, U., Gurrola, A., Florez, A.
2025; 85 (10)
- **Probing light scalars and vector-like quarks at the high-luminosity LHC** *EUROPEAN PHYSICAL JOURNAL C*
Qureshi, U. S., Gurrola, A., Florez, A., Rodriguez, C.
2025; 85 (4)