

RA3 Rare Processes Subgroup Meeting - Introduction -

Tatjana Lenz (Uni Bonn)
13 May 2026

RA3 Structure

- RA3 Kick-Off Meeting on 7. October 2025
- Five RA3 areas:
 - **Simulation** (MC/Whizard/Tauola/Future Colliders)
coordinator: Andrea Knue
 - **Rare processes** (Benchmarks, BSM, CPV, Vcb)
coordinator: Tatjana Lenz
 - **SMEFT** (NLO, dim8)
coordinator: Christian Grefe
 - **Tagging** (ML/ Jet tagging)
coordinator: Diptaparna Biswas
 - **Algebraic tools** (FeynCalc, IBP reduction)
coordinator: Vlad Shtabovenko

Funded Projects

- E. Schopf “Search for FCNC in top-quark decays to a Higgs boson and a charm or up quark”
- T. Lenz “Search for new signatures in CP-violating 2HDM”



Congratulations!!!

Today's Agenda

09:00 → 09:10 **Introduction**

Speaker: Tatjana Lenz (uni-bonn)

🕒 10m



09:10 → 09:20 **FCNC search in $t \rightarrow Hq$**

Speakers: Elisabeth Schopf, Inês Pinto (Universität Siegen)

🕒 10m



 talk.tex

09:20 → 09:30 **BSM Higgs**

Speaker: Tatjana Lenz (uni-bonn)

🕒 10m




09:30 → 09:40 **Higgs- \rightarrow tautau CP and A- \rightarrow tautau searches**

Speakers: Dr Christian Greife (Physikalisches Institut Universität Bonn), Laney Klippahn (Physikalisches Institut Universität Bonn), Luka Vomberg (Uni Bonn), Philip Bechtle (uni-bonn)

🕒 10m



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