

# PRISMA+ Colloquium

June 14, 2023 at 1 p.m.  
Lorentz-Raum, 05-127, Staudingerweg 7

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## **New directions in baryogenesis**

Everything around us, cookies, rocks, stars, galaxies... is made up of "matter" and not "antimatter". We know that if antimatter comes close to matter, they annihilate each other leaving only energy behind. That we are here means there is no antimatter to annihilate with us! But what happened to the antimatter in the Universe? Where did it go? How did it disappear? Why/how did matter stay behind? The referent will talk about this mystery and possible ways around it, which requires new physics beyond the Standard Model of particle physics.