

# Séminaire de physique des particules et de cosmologie

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(voir dans annonce)

## Introducing the Chirality-Flow Formalism for Standard Model calculations

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Scattering amplitudes are often split up into their gauge ( $su(N)$ ) and kinematic (two copies of complexified  $su(2)$ ) components. Since the  $su(N)$  gauge part is often calculated using flows of colour, it should similarly be possible to describe the  $su(2) \oplus su(2)$  kinematics of an amplitude in terms of flows of chirality. In two recent papers (hep-ph:2003.05877 and hep-ph:2011.10075) we showed that this is indeed the case, introducing the chirality-flow formalism for Standard Model calculations. In the chirality-flow method (which simplifies the spinor-helicity method) Feynman diagrams can be directly written down in terms of Lorentz-invariant spinor inner products, allowing the simplest and most direct possible path from Feynman diagram to complex number. In this talk, I will introduce this method and show some examples.

The seminar is on zoom only:

<https://cern.zoom.us/j/65900098638?pwd=SkY1RHhrQUVRcWhjQ3VsbTV4TG5XQT09>

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