

Questions and answers - Wolfgang Altmannshofer

The following questions were submitted through Zoom Q&A. Some / all may have been answered in the Q&A session already. Nevertheless, we request our lecturers to provide written answers here for the benefit of those who could not attend that session. Thank you!

1) If there is a source of CPV in the theory, will it finally somehow contribute to the EDM? Is there a simple way to see at least how many loops are needed to induce an EDM?

Answered live in ZOOM.

2) Why the EDM is usually expressed as the imaginary part of some parameters?

Answered live in ZOOM.

3) For 2HDM models, is there some general way to tell from the treatment of the various λ parameters (e.g. only when λ_5 , and λ_6, λ_7 are non-trivial), whether the model can have interesting CPV consequences ?

Answered live in ZOOM.

4) Page 6: Why the equation for η_b has n_γ in denominator instead of n_b ?

Answered live in ZOOM.