

TITLE: "Formal Methods in Aerospace: Constraints, Assets and Challenges"

ABSTRACT: This talk will try to give an overview of the use of formal methods in the aerospace domain. Aerospace systems development is constrained and structured by certification standards. The talk will thus start by giving elements of the certification context. The talk will then present formal methods currently used for industrial aerospace applications or being explored, in particular at Onera. Finally the talk will identify important issues that remain to be addressed in order to widen the industrial use of formal verification.