

# DiPaRT 2015 Meeting – 16-18 November



*ALPES ESR Carmine Valente giving Presentation*

The Centre for Modelling & Simulation (CFMS) hosted the sixth annual Airbus Flight Physics Distributed R&T Partnership (DiPaRT) event at the Bristol and Bath Science Park between 16<sup>th</sup> and 18<sup>th</sup> November 2015. This event brought together the UK Flight Physics R&T community to share research and learn about industry developments.

All five of the ALPES ESRs gave presentations at the DiPaRT 2015 Annual Meeting:-

<b>Irene Tartaruga –</b>	<i>"Analysis of Shimmy Occurrence of a Landing Gear System"</i>
<b>Michele Castellani –</b>	<i>"Structural Modelling Methodologies for Static Aeroelasticity and Loads Prediction of High Aspect Ratio wings"</i>
<b>Andrea Castrichini-</b>	<i>"Unsteady Aerodynamics in Multibody Simulations for Aircraft Loads Prediction"</i>
<b>Carmine Valente –</b>	<i>"OpenFSI Interface for Strongly Coupled Steady and Unsteady Aeroelasticity"</i>
<b>Adrien Poncet-Montanges -</b>	<i>"Frequency Domain Approach for Transonic Aerodynamic Modelling"</i>

Prof. Jonathan Cooper chaired a session of the Meeting and also gave a presentation on "Surrogate and Reduced Order Models for Fast and Accurate Loads Prediction" which described further work by Irene and Michele.

The event began with a series of keynote talks addressing Flight Physics R&T at UK and European level followed by evening reception and networking. The remaining two days comprised of a number of presentations from the UK Flight Physics Research Community that addressed technologies, capabilities and research ideas relevant to future wing design and operation.