

# PHYSICS

## DISAT - Optical Sensing of atmospheric gas

<b>Funded By</b>	Dipartimento DISAT
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<b>Contact</b>	
<b>Context of the research activity</b>	Nanophotonics for sensing applications.
<b>Objectives</b>	Design, fabrication and use of dielectric nanophotonic structures aimed at spectroscopic analysis of atmospheric gas. Activity within the HEU project "RAVEN-Ultra high resolution atmospheric sensors".
<b>Skills and competencies for the development of the activity</b>	Strong background in classical electromagnetism, optics and/or photonics . Hands-on experience in photonic crystals (fabrication/synthesis and characterization). Good knowledge of programming languages such as Python, C and Matlab. Experience in clean-room and chemical lab activity is an asset.