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## Fluid Mechanics and Optics: the effect of turbulence in the observation of the Universe

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In this talk we describe the importance of aerodynamics in the optimal properties of the atmosphere and their implications in the selection of the location of large astronomic facilities. We present a description of turbulence from the point of view of computational fluid dynamics, linking its modeling to the numerical formulation used to approximate the Navier-Stokes equations. We also explain how pressure, velocity and temperature fluctuations are used to compute the parameters that describe the quality of the seeing of a region, with a direct implication in the selection of telescope locations.