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Sensitivity of ignition designs to hydrodynamic instabilities LAURENT MASSE, CEA/DAM/DIF, CEA/DAM/DIF TEAM — After a short overview of ignition designs we discuss the sensitivity of those designs to hydrodynamics instabilities and the different ways to control them. We discuss in particular the influence of the drive temperature and the different tradeoff leading to a robust design. We finally present an experimental platform [1] aimed to assess a part of the main features of hydrodynamic instabilities in the context of ignition capsules.

[1] A. Casner et al., "Design and implementation plan for indirect-drive highly non-linear ablative Rayleigh-Taylor instability experiments on the National Ignition Facility," Phys. Plasmas, 19, 082708, (2012).

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