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Flow topology inside the interface layer at the edge of a turbulent jet RUI JAULINO, RODRIGO TAVEIRA, CARLOS B. DA SILVA, LAETA, IDMEC, Instituto Superior Tecnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal, LASEF TEAM — The invariants of the velocity gradient tensor are analysed in the viscous superlayer and turbulent sublayer within the sharp interface layer that exists at the edges of wakes, jets, mixing layers and boundary layers (turbulent/non-turbulent interface). The invariants display marked differences depending on the characteristics of each one of these layers, and show the imprint of the small scale eddies from the nearby turbulent region.

Carlos B. da Silva
LAETA, IDMEC, Instituto Superior Tecnico, Universidade de Lisboa,
Av. Rovisco Pais, 1049-001 Lisboa, Portugal

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