

Abstract Submitted
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ETG Modeling of a TCV Multi-Phase H-Mode Shot ELINA ASP,
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TEAM — TCV is well suited for electron transport studies due to its well developed
ECRH system. Ion heating is achieved by thermal equilibration at high density in
combination with strong third harmonic X-mode (X3) ECRH heating. In TCV shot
29892, X3 heating was applied to an ohmic ELMy H-mode, either at full or modu-
lated power. This shot covers four stationary H-mode phases, one ohmic followed by
three ELMy or ELM-free X3 heated. The final two are akin to improved H-modes.
Previous analysis with the GLF model implied the discharge to be ITG dominated,
in accordance with a preliminary Weiland stability analysis. As the applied heating
only affects the electrons it is important to analyze this discharge regarding ETG
and/or TEM modes. The ETG turbulence calculated with the IFS-ETG model will
be presented. This model has already successfully calculated electron transport in
dominantly electron-heated NSTX and Tore Supra.

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