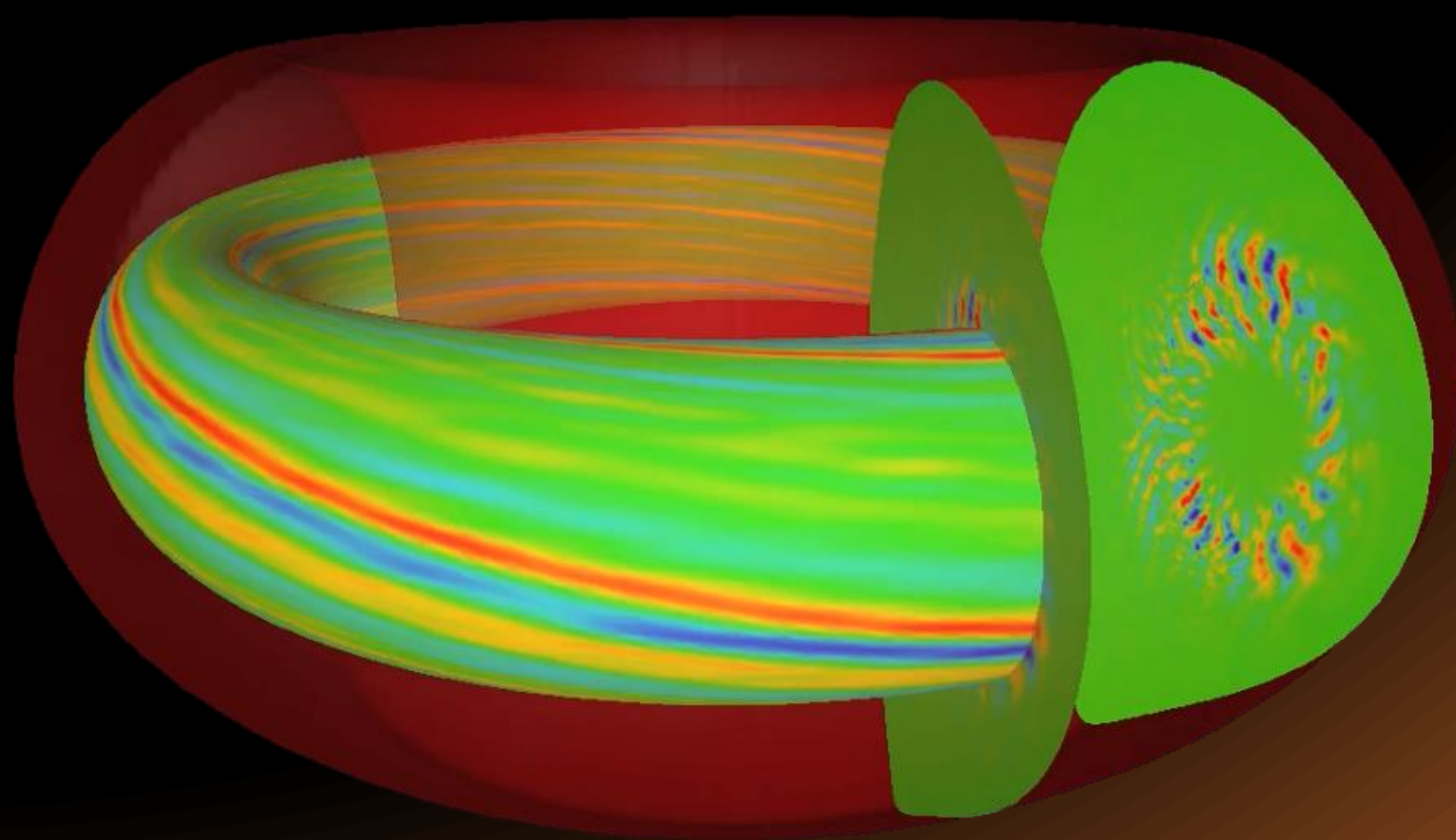


# 11TH ITER INTERNATIONAL SCHOOL 20-24/07/2020 AIX-EN-PROVENCE FRANCE



## THE IMPACT AND CONSEQUENCES OF ENERGETIC PARTICLES IN FUSION PLASMAS



Nonlinear simulation of Toroidal Alfvén Eigenmode (TAE) evolution performed with MEGA code (courtesy Y. Todo)

**CNRS THEMATIC SCHOOL**  
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### TOPICS AND LECTURERS

Introduction to energetic particle physics William Heidbrink	Experimental observations of energetic particle transport and losses Eric D. Fredrickson
Sources of energetic particles: theory and experiment Lars-Göran Eriksson	Diagnosing the losses of energetic particles and causes Manuel Garcia-Munoz
Modelling of energetic particle sources John Wright	Energetic particle instabilities: nonlinear effects and consequences Maxime Lesur
Diagnostics associated with redistribution of confined energetic particles and the causes Michael Van Zeeland	Control of energetic particle instabilities Rémi Dumont
Energetic particle instabilities: linear physics near threshold Sergei Sharapov	Modelling of transport and losses of energetic particles due to low-frequency modes and 3D fields Antti Snicker
Gyrokinetic and hybrid modelling of energetic particle transport Yasushi Todo	Physics and observations of runaway electrons Robert Granetz
Reduced models of energetic particle transport for scenario modelling Mario Podestà	Modelling of runaway electrons Tünde Fülöp

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