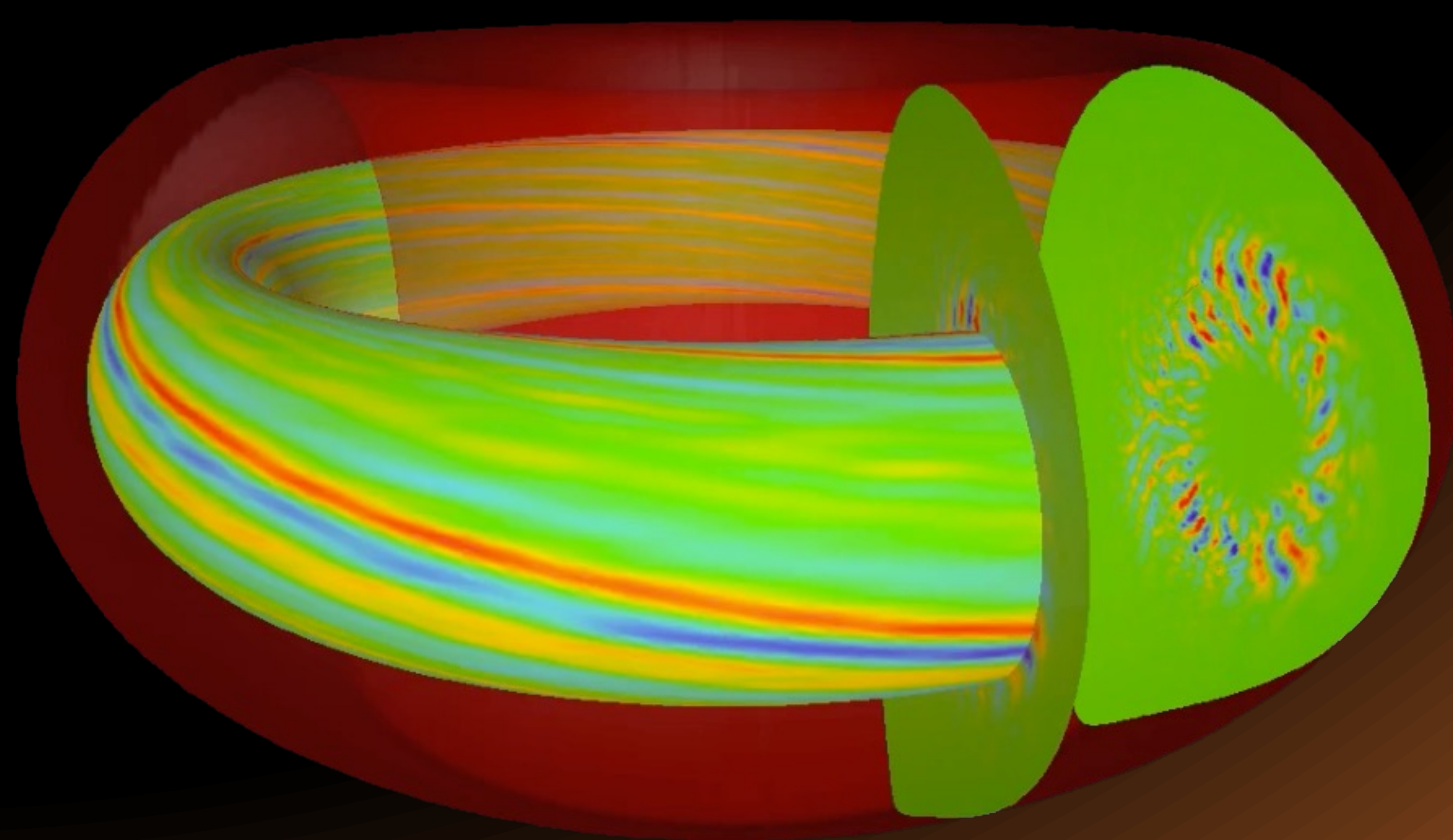


12TH ITER INTERNATIONAL SCHOOL

26-30/06/2023 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)

TOPICS AND LECTURERS

Introduction to energetic particle physics
William Heidbrink

Sources of energetic particles: theory and experiment
Lars-Göran Eriksson

Modelling of energetic particle sources
John Wright

Diagnostics associated with redistribution of confined energetic particles and the causes
Michael Van Zeeland

Energetic particle instabilities: linear physics near threshold
Sergei Sharapov

Gyrokinetic and hybrid modelling of energetic particle transport
Yasushi Todo

Reduced models of energetic particle transport for scenario modelling
Mario Podestà

Experimental observations of energetic particle transport and losses
Eric D. Fredrickson

Diagnosing the losses of energetic particles and causes
Manuel Garcia-Munoz

Energetic particle instabilities: nonlinear effects and consequences
Maxime Lesur

Control of energetic particle instabilities
Rémi Dumont

Modelling of transport and losses of energetic particles due to low-frequency modes and 3D fields
Antti Snicker

Physics and observations of runaway electrons
Robert Granetz

Modelling of runaway electrons
Tünde Fülöp

For further informations and registration

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