



**MT 26**  
**International Conference**  
**on Magnet Technology**  
Vancouver, Canada | 2019

Contribution ID: 1369

Type: **Contributed Oral Presentation**

**Mon-Mo-Or1-02: Design of the inter-coil structures  
and supports of the DTT magnet system**

*Monday, 23 September 2019 11:45 (15 minutes)*

The “Divertor Tokamak Test” is an experimental machine currently under construction in Italy, at the Frascati research center of ENEA. The main goal of this project is to explore various divertor solutions for defining the best way to manage power and particles exhaust, in view of the realization of the EU-DEMO machine. The DTT machine is relatively compact, and the magnet system works at high fields, this combination being quite challenging from the mechanical point of view. In particular, the loads acting on the Inner and Outer Inter-coil structures, on the Poloidal Field coils supports and on the gravity supports of the whole magnet system, are quite demanding. An overview of the design solutions adopted for all the inter-coils structures and supports is presented in this work, focusing particularly on their industrial feasibility.

**Primary author:** Mr ANEMONA, Alessandro

**Co-authors:** DI ZENOBIO, Aldo (ENEA); MUZZI, Luigi (ENEA); TURTU', Simonetta (ENEA/ICAS); GIANNINI, Lorenzo (ENEA); Dr ROMANELLI, Gherardo (Tratos ); Dr ZOBOLI, Lorenzo (ENEA); Mr DELLA CORTE, Antonio (ENEA)

**Presenter:** Mr ANEMONA, Alessandro

**Session Classification:** Mon-Mo-Or1 - Fusion II: Projects Around the World