## PROGRAMME

				Pg.
	Welcome Speech	В.	Brunelli	5
I.	Scientific Feasibility			
	Parameter Requirements for the Plasma in a Toroidal Reactor	A.	Gibson	15
	The Present Experimental Position of Stellarator and Tokamak Research	А.	Gibson	45
	Review of Plasma Heating Methods in Relation to the Reactor Ignition Problem	E.	Canobbio	71
	R.F. Heating	E.	Canobbio	89
	Ohmic Heating in Tokamaks	$L_{\bullet}$	Enriques	121
II.	Technical Feasibility			

	General Description of a possible D-T Toroidal Reactor	R.	Hancox	135
	Optimization of Superconducting Toroidal Magnets for Tokamak Fusion Reactors	K. I	H. Schmitter	163
	Scaling and Some Electrotechnical Parameters in Tokamak Fusion Reactors	A.	Knobloch	181
	General Concepts of Blanket Design	s.	Blow	201
	Tritium Breeding	J.	Darvas	219
:	Heat Deposition and Extraction	J.	Darvas	<b>23</b> 5
:	Radiation Damage	s.	Blow	247
-	Magnetic Effects on Lithium Pumping and Heat Transfer	<b>M.</b> <i>l</i>	. Hoffman	261
-	Fundamental Physics of the Sputte- ring Process and Surface	J.	Kistemaker	281

## Plasma-Wall Interaction H. Vernickel 303 The Problem of Fuel Injection R.G. Mills 325 Design Problems of Divertors R.G. Mills 341 T and D Profiles of a steady-R.G. Mills state Reactor 359 The Possibility of Pellet Injection and Preliminary Experimental F. Öster Results 373 Some Considerations on a thermonuclear D. Breton 385 Reactor Plant Engineering Topics S. Förster 397 III. Energy Resources Energy Resources D. Palumbo 423 Energy Demand - The European R. De Bauw 437 Situation Outline of Fast Reactors -F. Pierantoni Status, Features and Prospects 453 IV. Strategy of the Development of the Fusion Reactor W. Köppendörfer 469 Definition of Intermediate Targets Evaluation of Time Scales and H.L. Jordan 479 Efforts

B. Brunelli

487

Closing Speech

Pg.