



Cathare User Club

Practical information

1-2 June, 2026

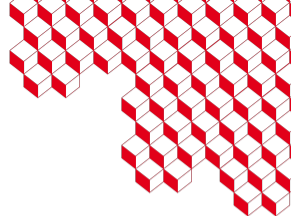
The Cathare Team

CEA DES/ISAS/DM2S/STMF SACLAY



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DUPTUNE



Day 1

Time	Presentation Title	Speaker(s)	Chairwoman/Chairman
08:45–09:30	Registration & Welcome Coffee	–	–
09:30–09:45	Practical informations and agenda	T. Lopez and Organizing Committee	
09:45–10:00	Welcome speech from Neptune Project	E. Nouy	
10:00–10:25	CATHARE News & Future Prospects	R. Pr�ea and the CATHARE Team – CEA	T. Lopez General talks
10:25–10:50	4thGeneration Nuclear Reactors and Innovative Nuclear Innovations in Reactor Technology Safety and Applications	P. Gavoille – CEA	
10:50–11:20	Coffee Break	–	–
11:20–11:50	CATHARE code at EDF DT	D. Pialla – EDF DT	
11:50–12:20	ASNR Activities Using the CATHARE System Code Overview and Focus on Passive Safety Systems and METEROV Applications	A. Younsi – ASNR	S. Carnevali
12:20–12:45	Development works on CATHARE COCAGNE coupling for IBLOCA studies	B. Klis – Framatome	Historical partners
12:45–13:00	Containment thermal hydraulics using CATHARE	B. Pl�evy – Framatome	
13:00–14:30	Lunch Break	–	–
14:30–14:55	Overview of CATHARE use at TechnicAtome	T. Croisette – TechnicAtome	
14:55–15:20	Use of the CATHARE Code at the University of Pisa for Research and Teaching	A. De Angelis, W. Ambrosini – Univ. Pisa	A. Ghione
15:20–15:45	Thermal Hydraulic Simulation of the S Allegro Integral Test Facility with CATHARE2 code	B. Kvizda – VUJE	Overview of activities
15:45–16:10	CATHARE Activities at ENEA	C. Lombardo, G. Grippo – ENEA	
16:10–16:45	Coffee Break	–	–
16:45–17:10	Use of CATHARE Code in Simulators at EDF Overview and Prospects	A. Midol – EDF	
17:10–17:35	First achievements for the future CATHARE 3 based Sodium Fast Reactor simulator SIRENA	L. Matteo – CEA Cad.	R. Pr�ea
17:35–18:00	GUITHARE V3 The New Graphical User Interface for CATHARE 3	V. Cottarel – CEA Sac.	GUI and simulators
18:00–19:00	Networking	All participants	–

Day 2

Time	Presentation Title	Speaker(s)	Chairwoman/Chairman
08:30–09:00	Welcome Coffee	–	–
09:00–09:25	R&D activities using CATHARE code at Bel V	A. Bousbia Salah – BEL V	F. Guillou 3-4 th GEN studies
09:25–09:50	Gas cooled thermal hydraulic analyses with the CATHARE code at HUN REN EK	G. Mayer – HUN-REN EK	
09:50–10:15	Numerical study of the EVEREST passive cooling system facility	K. Ait Hamou-Gandolfo – CEA Cad.	
10:15–10:40	Overview of CATHARE 3 validation work on the Molten Salt Reactor Experiment	M. Anderhuber, I. Gomez – CEA Sac.	
10:40–11:20	Coffee Break	–	–
11:20–11:45	New physical models in CATHARE and perspectives	F. Guillou, S. Carnevali – CEA Sac.	L. Sargentini Physical models
11:45–12:10	CATHARE code in international projects CEA activities	S. Carnevali – CEA Sac.	
12:10–12:35	Using system code for scaling analysis A new integrated tool in the CATHARE code applied to a SB LOCA transient	V. Cottarel – CEA Sac.	
12:35–13:00	BORA4 PTS and HYBISCUS II how to model salt water mixture with CATHARE3	A. Berny – CEA Sac.	
13:00–14:30	Lunch Break	–	–
14:30–14:55	Thermal energy storage using an ultra high temperature reverse Brayton cycle heat pump	M. Menoux, N. Tauveron – CEA Gre.	V. Cottarel Thermal systems
14:55–15:20	VINCI rocket engine chill down from forecasts to flight exploitation and beyond	A. Gomand – ArianeGroup	
15:20–15:45	Modelling of cryogenic exchangers Ariane 6 APU and green mobility applications	R. Jaoui – ArianeGroup	
15:45–16:15	Coffee Break	–	–
16:15–16:40	Improvement and validation of CATHARE 3 streamline rotodynamic pump model for gas liquid two phase flows	S. Martel – CEA Sac.	I. Djari
16:40–17:05	Applying very small and random perturbations to CATHARE test cases for development assessment	M. Vernassière – CEA Sac.	Models and performance
17:05–17:30	Assembly scale core simulation with the New Module 3D of CATHARE during a 6 inch cold break scenario with evaluation of CPU time performance and parallelization gains	A. Rodriguez – CEA Sac.	
17:30–17:40	Closing Remarks & Goodbyes	Organizing Committee	–