



## Preface by the CW2017 organizers including program, advisory board and photo

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## Preface by the CW2017 organizers including program, advisory board and photo

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The fourth edition of the International Workshop on Nuclear Data Covariances, organized by CEA Cadarache and NEA, took place in Aix en Provence, France, October 26, 2017. This workshop is the continuation of the series of workshops held in Port Jefferson, USA (2008), Vienna, Austria (2011) and

Santa Fe, New Mexico, USA (2014). It was open to contributions on all aspects of nuclear data covariance evaluations, for all observables (e.g. cross sections, energy and angle spectra, fission yields, and resonance parameters) from the resonance region up to the high energy range, for light to heavy nuclei.

	Monday 02/10	Tuesday 03/10	Wednesday 04/10	Thursday 05/10	Friday 06/10
9h	Workshop Registration	G. Schnabel		P. Palmiotti/M. Salvatores	L. Volat
9h30		D. Neudecker	D. Neudecker	V. Huv	A. Rizzo
10h00		J. Wang	Y. Danon	H. Iwamoto/A. Stankovskiy	
Coffee Break (10h30 - 11h15)					
11h15		E. Bauge	M. Kerveno	G. Shiba	J. Dyrda
11h45			M. Estienne	P. Leconte	L. Fiorito
Lunch Break (12h15 - 14h)					
14h	Introduction (C. De Saint Jean)	M. White	G. Kessedjian	M. Auferio / A. Bidaud	End of the workshop
14h30	Introductory Talk (M. Salvatores)	E. Privas	A. Chebboubi/S. Julien-Lafferriere	J. Gaillet	
15h	M. Munoz-Zuniga (IEPEN)	A. Sonzogni	C. Mattoon	H. Siostrand	
Coffee Break (15h30 - 16h)					
16h	P. Talou	R. Xu	O. Cabellos	I. Kodeli	
16h30	G. Arbanas	H. Leeb	L. Leal	S. Lahaye	
17h	D. Foligno	R. Capote	SG44	SG44	
17h30	Y. Bai	E. Bauge	SG44	SG44	
18h	G. Noguere	O. Litaize	SG44	SG44	
18h30					
				Workshop Dinner 19h-23h	
Covariance Evaluation Methodology	15				
Experimental Uncertainties	7				
Nuclear Models	3				
Applied Covariances	15				
Nuclear Data Libraries	3				
General talk	3				
Total	46				

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The main topics of the workshop were related to:

- covariance evaluation methodology (15 talks),
- nuclear reaction models prior uncertainties and biases (3 talks),
- measurement breakthrough to evaluate and reduce systematic uncertainties as well as biases (7 talks),
- nuclear data libraries: status of their covariance files/representation of covariance and formatting issues (3 talks), and
- applied covariances, from nuclear reaction model parameters to various applied parameters covariances (15 talks).

The number of participants was of about 50 people (for 45 oral presentations), coming from the United States, Europe, China, and Japan. Focused on the problem of uncertainties, this workshop had as main objective to open the future trends in the measurements, nuclear reaction modelling and in the process of nuclear data evaluation. The participation of national and international experts strongly contributed to its undeniable success.

After a general workshop introduction (C. De Saint Jean), an introductory talk was given by M. Salvatores to highlight the importance of nuclear data uncertainties for end-up users (reactors physicists). A last introductory talk, devoted to methods of uncertainties and correlations evaluation coming from other physic or mathematical

domains, was then given by M. Munoz-Zuniga (IFPEN) on Bayesian approach for model calibration in the oil and gas management. In the previous conference (organized in 2014 to Santa-Fe), the intensive use of Monte Carlo methods to propagate nuclear data uncertainties towards the applications was particularly observed in various talks. The major trends and advances of this CW2017 conference were related to better treatment of experimental systematic uncertainties such as normalization, detector efficiencies, background reduction,... Various talks given by experimentalists have shown their recent solutions to minimize these kind of uncertainties. In addition, theoreticians and evaluators proposed various advances to better take into account prior nuclear reaction models uncertainties with possible solutions given by more fundamental theories (microscopic ingredients). At last, this workshop has reminded the importance of integral experiments used as validation experiments but sometimes also as part of a more direct evaluation of the nuclear data of interest.

We would like to express our gratitude to all participants for their presentations but also for the fruitful discussions that took place during the conference.

Cyrille De Saint Jean (Workshop Chair),  
 on behalf of the CW2017 local organizing committee.

Covariance  
Workshop  
2017

4<sup>TH</sup> INTERNATIONAL WORKSHOP  
ON NUCLEAR DATA COVARIANCES  
OCTOBER 2–6, 2017 – AIX EN PROVENCE – FRANCE

