Programme for the history of science conference One hundred years of the Bohr atom Tuesday 11 to Friday 14 June 2013

Tuesday 11 June

16:00- 17:30	J.L. Heilbron , emeritus professor of history at the University of California, Berkeley	"My courage is ablaze so wildly": Niels Bohr en route to his quantum atom PUBLIC LECTURE – REQUIRES PRIOR REGISTRATION	
19:00	Registration and reception for speakers, with tapas		
Wednesday 12 June			
8:30	Registration (continued)		
9:00	Kirsten Hastrup , President of the Royal Danish Academy of Science and Letters	Welcome	
9:15	Finn Aaserud , Niels Bohr Archive, Denmark	Introduction and practical matters	
Session 1: Bohr and the atom (chair, Finn Aaserud)			
9:30	Helge Kragh , University of Aarhus, Denmark	The many faces of the Bohr atom	
10:00	Jaume Navarro , University of the Basque Country, Spain	Plum puddings and Bohr's atom	
10:30	Michael Eckert, Deutsches Museum, Germany	Extending Bohr: Sommerfelds's early atomic theory, 1913–1916	
11:00	Coffee		
11:30	Michiyo Nakane, Kawasaki, Japan	Bohr's introduction to action-angle variables in a 1918 paper	
12:00	Robert Rynasiewicz , Johns Hopkins University, U.S.A.	The(?) Correspondence Principle	
12:30	Martin Jähnert, Max Planck Institute for the History of Science	The Correspondence Principle in Practice: Its Spread and Use in the Old Quantum Theory	
13:00	Lunch		
Session 2: Bohr, the atom and other physics (chair, Helge Kragh)			
14:00	Anthony Duncan , University of Pittsburgh and Michel Janssen , University of Minnesota, U.S.A.	Stark contrasts between the Old and the New Quantum Theory	
14:30	Luis Boya, University of Zaragoza, Spain	Arnold Sommerfeld and Niels Bohr: Comparison of the schools at Munich and Copenhagen at the time of the Old Quantum Theory	
15:00	Enric Canals and Blai Pie Valls, University of Barcelona, Spain	Ehrenfest's Adiabatic Hypothesis in Bohr's quantum theory	
15:30	Coffee		
16:00	Michael Nauenberg , University of California, Santa Cruz	What happened to the Bohr-Sommerfeld elliptic orbits in Schrödinger's wave mechanics?	
16:30	Jeroen van Dongen , Utrecht University, Holland	Communicating the Heisenberg Relations: Niels Bohr and the forgotten Einstein–Rupp Experiments	
17:00	Brigitte van Tiggelen, Lovain Catholic University, Belgium, and Annette Lykknes, Norwegian University of Science and Technology, Norway	Ida Noddack and the fission proposal: The actor's perspective	
17:30	End of session		
17:45- 19:30	Planning meeting for speakers, with smørrebrød.		

Thursday 13 June

Session 3: Philosophical and contemporary aspects (chair, Jeroen van Dongen)

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9:00	Giora Hon , University of Haifa, Israel, and Bernard R. Goldstein , University of Pittsburgh, U.S.A.	Constitution, structure, system, and model: Imagining the atom – an early twentieth century story		
9:30	Theodore Arabatzis and Despina Ioannidou, University of Athens, Greece	The role of models and analogies in the Bohr Atom		
10:00	Henrik Zinkernagel , University of Granada, Spain	Are we living in a quantum world? Bohr and quantum fundamentalism		
10:30	Coffee			
11:00	N.D. Hari Dass, Chennai Mathematical Institute; CQIQC, IISc, India	The Superposition Principle in Quantum Mechanics – did the rock enter the foundation surreptitiously?		
11:30	Shan Gao , University of Sydney, Australia and Chinese Academy of Sciences, China	How do electrons move in atoms? — From the Bohr model to quantum mechanics		
12:00	Thiago Hartz and Olival Freire , Federal University of Bahia, Brazil	Uses and appropriations of Niels Bohr's ideas about quantum field measurements, 1935–1965		
12:30	Lunch			
Session 4: National and institutional aspects (chair, Henrik Zinkernagel)				
14:00	Shaul Katzir, Tel Aviv University, Israel	Manchester at war: Rutherford, Bohr, submarine detection and atomic spectra		
14:30	Gábor Palló , Budapest University of Technology and Economics, Hungary	The Bohr model's early reception in Hungary: Hevesy and Bohr		
15:00	Peter Robertson , University of Melbourne, Australia	Birthplace of a new physics – the early history of the Niels Bohr Institute		
15:30	Coffee			
16:00	Karl Grandin , Royal Academy of Science, Sweden	Niels Bohr from a Swedish perspective		
16:30	Henrik Knudsen , University of Aarhus, Denmark	Pursuing common cultural ideals: Niels Bohr, neutrality, and international scientific collaboration during the inter-war period		
17:00	End of session			
19:00	Conference dinner for speakers in Restaurant Nimb Terrasse, Tivoli Gardens			
Friday 14 June				
Session 5: Other aspects (chair, Henrik Knudsen)				
9:00	Finn Aaserud , Niels Bohr Archive, Denmark	Love and physics: Margrethe Nørlund and Niels Bohr's scientific creativity, 1910–1913		
9:30	Ernst Peter Fischer, Heidelberg, Germany	A romantic understanding of atoms: Bohr's success in a new perspective		
10:00	Dieter Hoffmann , Max Planck Institute for History of Science, Germany	The relationship between Niels Bohr and Max Planck		
10:30	Coffee			
11:00	Arne Schirrmacher , Humboldt University, Germany	Models at an exhibition: The planetary atom on display in Europe and what this meant for science		
11:30	Kristian H. Nielsen, University of Aarhus, Denmark	The Bohr Atom bound in cloth: Comparing popular books about atomic physics in Germany, Britain and Denmark, 1918–1927		
12:00	Conclusion			
12:30	Lunch			