

Curriculum Vitae – Søren Bang Korsholm

PERSONAL INFORMATION

Name: Korsholm, Søren Bang

Date of birth: 15.12.1971

Research ID: A-4234-2012

Nationality: Danish

ORCID: 0000-0001-7160-8361

Children: 3 (2000, 2004, 2009)

URL for web site: www.fysik.dtu.dk/English/Research/ppfe



EDUCATION

2002 PhD in plasma physics, Department of Physics, Technical University of Denmark

Name of PhD Supervisor: Erik Mosekilde, Poul K Michelsen, Jens J Rasmussen

1998 Master of Science in Engineering, Department of Physics, Technical University of Denmark

CURRENT POSITION(S)

2007 – Senior Scientist, Department of Physics, Technical University of Denmark, Denmark

PREVIOUS POSITIONS

2004 – 2007 Scientist at Risø National Laboratory, Denmark

2002 – 2007 Affiliated to the Plasma Science and Fusion Centre (PSFC) at MIT, Cambridge (MA), USA. MIT contact person: Dr. Paul P. Woskov, Associate Head of the Plasma Technology Division

2002 – 2004 Postdoc at Risø National Laboratory

RESEARCH AREA

Fusion energy research with emphasis on fusion plasma physics. In particular, work on microwave diagnostics for fast ion velocity distribution function and bulk ion measurements using the collective Thomson scattering (CTS) technique. The DTU Physics CTS group is world leading in the field. Principle Investigator for developing the CTS diagnostic system for ITER under an F4E contract. Formerly project leader of the TEXTOR CTS project (commissioning and experiments) 2004-2005, 2006-2007, and 2009-2010 (until it was decommissioned).

PUBLICATIONS

WoS publications: 72

Citations: 1329

H-index: 24

Year of first WoS publication: 1999

Citation impact: 18.5

Other publications:

Mobilizing industry for 'big science', N. Zangenberg and S.B. Korsholm, Physics World, October 2017

Numerous appearances in DR P1, DR2, TV2, TV2 News, Numerous interviews for videnskab.dk,

Science Report, Berlingske Tidende, Politiken, Ingeniøren, other regional newspapers etc.

~200+ lectures, roadshows etc. for high school students and the general public

FIVE SELECTED PUBLICATIONS

1. S.B. Korsholm et al, Design and development of the ITER CTS diagnostic (invited talk at EC-18), to be published on-line via EPJ, Web Conferences (2018)
2. S.B. Korsholm et al, Collective Thomson scattering capabilities to diagnose fusion plasmas, Nucl. Instr. and Meth. A (2010)
3. S.B. Korsholm et al, Current fast ion collective Thomson scattering diagnostics at TEXTOR and ASDEX Upgrade, and ITER plans (invited), Rev Sci Instrum (2006)
4. H. Bindslev et al, Fast-Ion Dynamics in the TEXTOR Tokamak Measured by Collective Thomson Scattering, Phys Rev Lett. (2006)

5. S.B. Korsholm, Resistive drift wave turbulence in a three-dimensional geometry, Phys. Plasma (1999)

GRANTS (2013-present)

- 2014 – 2020 Principle Investigator and overall coordinator for the F4E-FPA-393 contract on design of LFS CTS diagnostic for ITER (~4.000.000 Euro from F4E. Co-financed by ~4.000.000 Euro from DTU and consortium partner IST-IPFN (Portugal))
- 2016 – 2018 Grant from the Danish Council for Technology and Innovation (approx. 1.200.000 Euro – DTU share 200.000 Euro) for the BigScience.dk (as DTU responsible and Chairman of the Steering Committee)
- 2013 – 2015 Grant from the Danish Council for Technology and Innovation (approx. 1.200.000 Euro – DTU share 300.000 Euro) for the Big Science Secretariat (as DTU responsible and chairman of the steering committee)
- 2012 – 2014 Part of grant from the Capital Region of Denmark and EU Regional Development funds (approx. 135.000 Euro) for the Big Science Secretariat (as coordinator for the sub-project about BSS)

SUPERVISION (2013-present)

- Postdoc Those participating in the F4E project about ITER CTS
- PhD Dmitry Moseev (RUS) 2009-2012
- MSc Christian Vorm (DK) 2011 Carl-Johan Frost Lerche (DK) 2016
Matias Riemann Seelk (DK) 2017

TEACHING ACTIVITIES

- 2017 Special courses and Research Immersion courses at MSc and BSc level, 5 ECTS (N/A), DTU, main responsible

INNOVATION

AWARDS

ORGANISATION OF SCIENTIFIC MEETINGS

- 2018 Initiator and co-organizer, Big Science Business Forum 2018, Denmark (1000+ participants from European industry, Big Science organizations, and research centers.

INSTITUTIONAL RESPONSIBILITIES

- 2012 – FacultyPlus member, Department of Physics, DTU, Denmark

COMMISSIONS OF TRUST

- 2006 – Reviewer for Review of Scientific Instruments, Fusion Engineering and Design, Physics of Plasmas

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2017 – Deputy Chair, ITPA Diagnostics, Specialists Working Group on Microwave Diagnostics (member since 2009)

MAJOR COLLABORATIONS

- Bruno Soares Gonçalves, Fusion plasma diagnostic development, Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Portugal

CAREER BREAKS

- Exact dates None