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**Defect distributions in channeling experiments**

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### **Non-binary atomic collisions in crystals**

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### **CORRECTION**

Sigmund, P., 1963, I: Physics Letters.

### **Effect of channelling on displacement cascade theory**

Sigmund, P., 1963, I: Physics Letters. 6, 3, s. 251-253

### **Magnetismus des freien Elektronengases**

Sigmund, P., 1963, I: ZEITSCHRIFT FUR PHYSIK. 171, s. 515-526

## **Aktiviteter**

### **27th International Conference on Atomic Collisions in Solids**

Peter Sigmund (Oplægsholder)

24. jul. 2016 → 29. jul. 2016

### **Abbremsung schwerer Ionen im keV- und MeV-Bereich**

Peter Sigmund (Foredragsholder)

9. jan. 2008

### **Abbremsung schwerer Ionen und die damit verbundenen Elektronenspektren**

Peter Sigmund (Foredragsholder)

3. apr. 2007

### **Applications of the PASS stopping code**

Peter Sigmund (Underviser) & Andreas Schinner (Andet)

14. okt. 2019

### **Artikler inden for ionstrålefysik (Tidsskrift)**

Peter Sigmund (Peer reviewer)

jan. 2012 → dec. 2012

### **Atomic Collisions in Solids**

Peter Sigmund (Oplægsholder)

22. okt. 2012

### **Atomic Collisions in Solids**

Peter Sigmund (Oplægsholder)

23. okt. 2012

### **Bestyrelsen for Syddansk Folkeuniversitet (Ekstern organisation)**

Peter Sigmund (Medlem)

1. jan. 2004 → 31. aug. 2008

### **Centro Atomico Bariloche**

Peter Sigmund (Gæsteforsker)

31. jan. 2008 → 28. feb. 2008

### **Charge evolution of swift-heavy-ion beams explored by matrix method**

Peter Sigmund (Foredragsholder)

19. jul. 2010

**Charge exchange in stopping and straggling of swift heavy ions**

Peter Sigmund (Foredragsholder)

21. sep. 2011 → 23. sep. 2011

**Charge exchange in stopping and straggling of swift ions**

Peter Sigmund (Foredragsholder)

24. okt. 2010 → 28. okt. 2010

**Charge states and charge exchange of penetrating ions**

Peter Sigmund (Foredragsholder)

21. aug. 2009

**Critical issues in heavy-ion stopping at low and intermediate velocities**

Peter Sigmund (Foredragsholder)

8. sep. 2007

**Danmarks Tekniske Universitet (Ekstern organisation)**

Peter Sigmund (Formand)

27. sep. 2011 → 30. sep. 2011

**Electronic stopping of light and heavy ions**

Peter Sigmund (Foredragsholder)

12. okt. 2009

**En fysikers erfaringer med at holde faglige foredrag**

Peter Sigmund (Foredragsholder)

11. nov. 2010

**Energy-loss straggling in equilibrium**

Peter Sigmund (Foredragsholder)

19. jul. 2010

**Evaluering (Ekstern organisation)**

Peter Sigmund (Medlem)

12. sep. 2011 → 14. sep. 2011

**Expanded PASS stopping code**

Peter Sigmund (Underviser), Andreas Schinner (Underviser) & Valery Kuzmin (Underviser)

5. jul. 2018

**Exploring reciprocity as a tool in low-energy electronic stopping**

Peter Sigmund (Foredragsholder)

20. jul. 2010

**Folkeuniversitetet i Odense (Ekstern organisation)**

Peter Sigmund (Medlem)

1. jan. 2002 → 31. aug. 2008

**Forsknings- og Innovationsministeriet (Ekstern organisation)**

Peter Sigmund (Medlem)

30. nov. 2005 → 30. nov. 2009

**From Pass to Parnass: Status and progress on a recent stopping code**

Peter Sigmund (Foredragsholder)

4. apr. 2008

**Fundamentals of ion-matter interaction**

Peter Sigmund (Foredragsholder)

15. aug. 2011 → 19. aug. 2011

**Good and bad scientific practice**

Peter Sigmund (Foredragsholder)

26. jun. 2012

**Good and bad scientific practice**

Peter Sigmund (Foredragsholder)

28. apr. 2015

**Good and bad scientific practice**

Peter Sigmund (Foredragsholder)

10. nov. 2015

**Good and bad scientific practice**

Peter Sigmund (Foredragsholder)

12. maj 2016

**Good scientific practice in physics**

Peter Sigmund (Foredragsholder)

27. jun. 2012

**Hans Henrik Andersen, the scientist**

Peter Sigmund (Foredragsholder)

8. sep. 2013

**Impact-parameter-dependent stopping of heavy ions and the resolution of a longstanding problem in channeling**

Peter Sigmund (Foredragsholder)

17. nov. 2009

**Impact-parameter-dependent stopping of swift heavy ions**

Peter Sigmund (Foredragsholder)

2. jun. 2009

**International workshop on inelastic ion surface collisions**

Peter Sigmund (Oplægsholder)

20. okt. 2015

**Is electronic stopping velocity-proportional in the velocity-proportional region?**

Peter Sigmund (Underviser)

26. jun. 2018

**Journal of Applied Physics (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2009

**Journal of Physics B (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2008

**Journal of Physics B (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2008

**Journal of Physics D (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2008

**Landmarks and Controversies in Ion Beam Physics**

Peter Sigmund (Foredragsholder)

8. okt. 2014

**Landmarks in understanding sputter emission**

Peter Sigmund (Foredragsholder)

14. sep. 2016

**Landmarks in understanding sputtering**

Peter Sigmund (Underviser)

20. aug. 2017

**Milestones in particle stopping 1913-2013: Highlights and Dead Ends**

Peter Sigmund (Foredragsholder)

3. jun. 2013 → 8. jun. 2013

**Milestones in Particle Stopping, 1913 - 2013: Highlights and Dead Ends**

Peter Sigmund (Foredragsholder)

5. jun. 2013

**Mini-symposium on particle penetration and radiation effects**

Peter Sigmund (Arrangør)

17. nov. 2009

**Mini-symposium on particle penetration and radiation effects**

Peter Sigmund (Arrangør)

29. nov. 2010

**Nanoscale Pattern Formation at surfaces**

Peter Sigmund (Arrangør)

31. maj 2013

**New Journal of Physics (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2008

**News on particle penetration: Molecules, wakes and Fermi gas**

Peter Sigmund (Foredragsholder)

10. feb. 2012

**Niels Bohr (1913) and the Interaction of Charged Particles with Matter**

Peter Sigmund (Foredragsholder)

12. jun. 2013 → 14. jun. 2013

**Niels Bohr (1913) and the Interaction of Charged Particles with Matter**

Peter Sigmund (Foredragsholder)

13. jun. 2013

**Niels Bohr som fysiker, stadig aktuel hundrede år efter 1913**

Peter Sigmund (Foredragsholder)

20. nov. 2013

**Nuclear Instruments and Methods B (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2008

**Nuclear Instruments and Methods B (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2008

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Peter Sigmund (Redaktør)

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**Nuclear Instruments and Methods B (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2009

**Partikelterapi - stråleterapi med hurtige ioner**

Peter Sigmund (Foredragsholder)

28. apr. 2011 → 29. apr. 2011

**Partikelterapi: Straaleterapi med hoejenergetiske ioner**

Peter Sigmund (Foredragsholder)

9. mar. 2011

**Physical Review A (Tidsskrift)**

Peter Sigmund (Redaktør)

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Peter Sigmund (Redaktør)

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**Physics with Ion Beams**

Peter Sigmund (Underviser)

29. mar. 2019

**Progress in Heavy-ion Stopping**

Peter Sigmund (Foredragsholder)

19. okt. 2015

**Progress in understanding low-velocity electronic stopping**

Peter Sigmund (Underviser)

8. nov. 2021

**Radiation Effects and Defects in Solids (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2009

**Reactive Sputter Deposition**

Peter Sigmund (Oplægsholder)

8. dec. 2011 → 9. dec. 2011

**Recent progress in heavy-ion stopping, including channeling and straggling**

Peter Sigmund (Foredragsholder)

25. feb. 2010

**Reciprocity analysis of electronic stopping of slow ions**

Peter Sigmund (Underviser), Valery Kuzmin (Underviser) &amp; Andreas Schinner (Underviser)

6. jul. 2018

**REM8-8th International Meeting on recent developments in the study of radiation effects in matter**

Peter Sigmund (Arrangør)

20. sep. 2015 → 23. sep. 2015

**Reports on Progress in Physics (Tidsskrift)**

Peter Sigmund (Redaktør)

1. jan. 2009

**Six decades of atomic collisions in solids: Roots, surprises, controversies**

Peter Sigmund (Foredragsholder)

25. jul. 2016

**Slowing down of swift ions and associated electron spectra**

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10. jan. 2008



**Sputter Theory: What do we know, and what should we know?**

Peter Sigmund (Foredragsholder)

7. feb. 2011

**Stopping of heavy ions and associated electron emission spectra**

Peter Sigmund (Foredragsholder)

15. okt. 2008

**Stopping of ions**

Peter Sigmund (Arrangør)

4. apr. 2008

**Stopping of ions heavier than helium**

Peter Sigmund (Foredragsholder)

20. apr. 2009

**Stopping of light and heavy ions: Fundamentals**

Peter Sigmund (Foredragsholder)

18. aug. 2008

**Stopping of slow ions**

Peter Sigmund (Foredragsholder)

24. aug. 2007

**Stopping of slow ions**

Peter Sigmund (Foredragsholder)

6. feb. 2008

**Stopping of slow ions revisited**

Peter Sigmund (Underviser)

21. aug. 2017

**Stopping of swift heavy ions in gases and solids**

Peter Sigmund (Foredragsholder)

11. feb. 2011

**Stopping of swift heavy ions under channeling conditions**

Peter Sigmund (Foredragsholder)

7. sep. 2009

**Stopping of swift ions and associated electron spectra**

Peter Sigmund (Foredragsholder)

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**Stopping of swift ions and associated electron spectra**

Peter Sigmund (Foredragsholder)

16. jan. 2007

**Stopping of swift ions and related phenomena**

Peter Sigmund (Foredragsholder)

17. mar. 2010

**Stopping of swift particles, a kaleidoscope of physics problems**

Peter Sigmund (Foredragsholder)

15. feb. 2007

**Straaleterapi med højeenergetiske ioner: Partikelterapi**

Peter Sigmund (Foredragsholder)

25. nov. 2010

**Straaleterapi med højeenergetiske partikler (Partikelterapi)**

Peter Sigmund (Foredragsholder)

24. apr. 2014

**Stragglings of swift ions**

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29. nov. 2010

**Stråleterapi med højeenergetiske ioner**

Peter Sigmund (Foredragsholder)

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**Stråleterapi med højeenergetiske ioner (Partikelterapi)**

Peter Sigmund (Foredragsholder)

28. nov. 2013

**Stråleterapi med højtenergetiske partikler**

Peter Sigmund (Underviser)

25. apr. 2019

**Stråleterapi med højtenergetiske partikler**

Peter Sigmund (Underviser)

25. apr. 2019

**Strålingsterapi med højeenergetiske partikler**

Peter Sigmund (Underviser)

24. apr. 2017

**Structure in the velocity dependence of heavy-ion energy-loss stragglings**

Peter Sigmund (Foredragsholder)

22. jun. 2015

**Udvalgene til vurdering af videnskabelig uredelighed (Ekstern organisation)**

Peter Sigmund (Medlem)

2010 → 31. jan. 2014

**Understanding sputtering**

Peter Sigmund (Underviser)

1. nov. 2017

**Violinens fysik**

Peter Sigmund (Foredragsholder)

2. okt. 2007

**Violinens fysik**

Peter Sigmund (Foredragsholder)

16. jan. 2008

**Violinens fysik**

Peter Sigmund (Foredragsholder)

5. jul. 2016

**Z2-structure and gas-solid effect in low-velocity stopping**

Peter Sigmund (Foredragsholder)

7. maj 2007

**Z2-structure and gas-solid effect in low-velocity stopping**

Peter Sigmund (Foredragsholder)

28. aug. 2007