

Outreach talks, media and press releases

Prof. Dr. Samir Lounis

Videos / Radio

- Algerian Radio Show 'Meeting with Emigrants' (01/12/2019)

- <https://www.youtube.com/watch?v=vpJN-dbq5zU>,
ERC Consolidator Grant for Jun.-Prof. Dr. Samir Lounis

- <https://www.youtube.com/watch?v=jHxuVZjprPU>,
Physics at the Nanoscale: The Art of Playing Lego with Atoms

Outreach talks

- A career path in physics,
Palestinian-German Science Bridge Workshop, Forschungszentrum Jülich, Germany, Dec. 8th, 2016
- Physics at the nanoscale: The art of playing Lego with atoms,
Symposium Helmholtz Horizons, Berlin, Germany, Sept. 23rd, 2016
- Physics at the nanoscale: Playing Lego with atoms,
Science Café session at the Annual Conference of the Arab-German Young Academy of Sciences and Humanities (AGYA), Doha, Qatar, March 18th–21th, 2016
- Frustration and dance floors: Engineering nano-concepts with quantum mechanics,
Invited talk for the Popular Scientific Günter-Leibfried-Prize from the Forschungszentrum Jülich, Germany, September 8th, 2008

Press releases

- Researchers Question Fundamental Study on the Kondo Effect (07/01/2021)
- Wired Up: Majorana Fermions for Quantum Computing,
Press releases (29/09/2020)
- Single atoms stop magnetic vortices,
Press releases (05/06/2020)
- Data Storage Concept: Flaws with Benefits: Material defect improves sensitivity,
Press releases (31/03/2020)
- New Magnetic Interaction Discovered,
Press releases (24/01/2020)

- Nano Puzzle for More Stable Data Storage,
Press releases (16/07/2019)
- Towards IT of the Future: Interactions of Skyrmions Better Understood,
Press releases (22/10/2018)
- A little bit strange bit of three atoms,
Press releases (21/09/2017)
- Interview on the experience to lead a young investigator group,
FZJ (2017)
- Characterization of Magnetic Nanovortices Simplified,
FZJ press releases (20/12/2016)
- Atomic Bits Despite Zero-Point Energy?,
FZJ press releases (08/07/2016),
also at Science newslines; Phys.org
- PGI-1 Research in the Spotlight at the New Year's Reception,
FZJ press releases (18/02/2016)
- Jülich Researchers Receive Funding from European Research Council,
FZJ press releases (17/12/2015), see also at Aachener Zeitung
- Neuer magnetischeffekt erspürt nanomagnetwirbel,
Innovations Report (15/10/2015),
also at Informationsdienst Wissenschaft; LABO Online
- Giant charge density disturbances discovered in nanomaterials,
Physorg (26/11/2014),
also at Science Newslines; Nanowerk; Science Codex; Science 2.0; Nanotechnology now; Controlled environments; (e) Science News
- Riesige Ladungsdichtestörungen in Nanomaterial entdeckt,
Labo online (04/12/2014),
also at <http://www.uni-protokolle.de/nachrichten/text/288944/>; Noodles; Innovations report; Jura forum; Uni-online
- Riesige Ladungsdichtestörungen in Nanomaterial,
Pro-Physik, Das Physikportal (26/11/2014)
- Kondo effect – Nanosensor bringt Wechselwirkungen zwischen Materialien ans Licht,
Labor praxis (12/11/2014)
also Düren Magazin
- Wie magnetische Atome untereinander konkurrieren,
idw-online.de (Informationsdienst Wissenschaft) (11/11/2014),
also Pro Physik; Chemie.de; My Science; Uni protokolle; Innovations report; Jura forum
- Forscher bauen Nano-Magneten aus fünf Atomen,
winfuture.de (04/01/2013)
- Nanomagnet nach Mass– Forscher aus Jülich und Hamburg setzen magnetische Strukturen Atom für Atom zusammen,
Chemie.de, Information Service (09/05/2012)
- Building nanomagnets atom by atom,
Physicsworld.com, (08/05/2012)
- Building novel nanomagnets atom by atom,
, Nanotechweb.org, Technology update (04/05/2012)

- Tailor-Made Nanomagnets– Researchers from Jülich and Hamburg assemble magnetic structures atom by atom,
Forschungszentrum Jülich, Press releases (03/05/2012)
- Novel Magnetic Coupling Calculated and Measured in Detail,
Forschungszentrum Jülich Press Releases (03/2010)
- Looking Below the Surface,
Andreas J. Heinrich, Science **323**, 1178 (2009)
- *Nanosonar blickt ins Innerste der Metalle: Neue Methode macht Ringe unter der Oberfläche sichtbar*,
Scinexx, Wissensmagazine (Springer)(04/03/2009)
- *Blick ins Innerste der Metalle: Jülicher Forscher messen verborgene Elektronen*,
General Anzeiger, Bonn(03/03/2009)
- *Nano-sonar uses electrons to measure under the surface*,
Daily Science News(02/03/2009)
- *Mikroskop-Sonde erspäht das Innerste der Metalle*,
Welt der Physik(27/02/2009)
- *Nanosonar erspäht Fermi-Flächen*,
Pro-Physik(27/02/2009)
- *Latest Issue of Science: Nano-sonar Uses Electrons To Measure Under The Surface*,
Science Mode(27/02/2009)
- *Jülicher Forscher schauen ins Innerste der Metalle: Nanosonar misst mit Elektronen unter der Oberfläche*,
Chemie.de, Information Service(27/02/2009)
- *Single atoms switch nanowires*,
Belle Dumé, Nanotechweb.org: A community website from IOP Publishing (25/11/2008)
- *Magnetic Oddity*,
Nature Physics **4**, 751 (2008)
- *Magnetism of Nanowires Driven by Novel Even-Odd Effects*,
Highlights of Self-Organised Nanostructures (SONS 2), European Science Foundation (ESF) (01/10/2008)
- *Nanoscale Dominoes: Magnetic Moments Topple Over in Rows*,
Physorg.com and Daily Science News (24/09/2008)
- *Faszinierende Einblicke in die Welt der Forschung*,
Aachener and Jülicher Zeitung (20/09/2008)
- 12/09/2008 *Wissenschaft ist nicht schwierig*,
Radio Rur Nachrichten Kreis Düren (12/09/2008)
- *Atomares Domino: Magnetische Momente kippen reihenweise*,
www.metall-web.com (04/2008)
- *Domino Day on a Nano Level: Magnetic Moments Topple Over in Rows*,
Forschungszentrum Jülich Press Releases (04/2008)
- *Atomaresdomino: Dissertationspreis geht nach Jülich*, Das-Jülicht (17/04/2008)