

**Emission Channeling with Short-Lived Isotopes (EC-SLI) collaboration****Publication list 2012-2016****2012**

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- 2) P. Miranda, U. Wahl, N. Catarino, K. Lorenz, J.G. Correia, and E. Alves: "Damage formation and recovery in Fe implanted 6H-SiC", *Nuclear Instruments and Methods in Physics Research B* 286 (2012) 89-92.  
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- 3) S. Decoster, U. Wahl, S. Cottenier, J.G. Correia, T. Mendonça, L.M. Amorim, L.M.C. Pereira, and A. Vantomme: "Lattice position and thermal stability of diluted As in Ge", *Journal of Applied Physics* 111 (2012) 053528/1-7.  
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- 4) L.M.C. Pereira, U. Wahl, S. Decoster, J.G. Correia, M.R. da Silva, A. Vantomme, and J.P. Araújo: "Stability and diffusion of interstitial and substitutional Mn in GaAs of different doping types", *Physical Review B* 86 (2012) 125206/1-8.  
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- 5) L.M.C. Pereira, U. Wahl, S. Decoster, J.G. Correia, M.R. da Silva, A. Vantomme, and J.P. Araújo: "Evidence of N substitution by Mn in wurtzite GaN", *Physical Review B* 86 (2012) 195202/1-4.  
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- 8) D.J. Silva, U. Wahl, J.G. Correia, and J.P. Araújo: “Influence of  $n^+$  and  $p^+$  doping on the lattice sites of Fe in Si”, Journal of Applied Physics 114 (2013) 103503/1-9.  
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- 13) L.M.C. Pereira, U. Wahl, J.G. Correia, L.M. Amorim, D.J. Silva, S. Decoster, M.R. da Silva, K. Temst, and A. Vantomme: “Emission channeling studies on transition-metal doped GaN and ZnO: Cation versus anion substitution”, Nuclear Instruments and Methods in Physics Research B 332 (2014) 143-147.  
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- 21) D.J. Silva, U. Wahl, J.G. Correia, L.M.C. Pereira, L.M. Amorim, M.R. da Silva, and J.P. Araújo: “Lattice location of implanted Co in heavily doped  $n^+$ - and  $p^+$ -type silicon”, submitted to Applied Physics A.
- 22) V. Augustyns, K. van Stiphout, T.A.L. Lima, G. Lippertz, S.M.C. Miranda, M. Trekels, E. Menéndez Dalmau, F. Kremer, U. Wahl, A. Costa, J.G. Correia, D. Banerjee, H.P. Gunnlaugsson, H.J. von Bardeleben, I. Vickridge, M.J. Van Bael, W. Vandervorst, J. Hadermann, J.P. Araújo, K. Temst, A. Vantomme, and L.M.C. Pereira: “Towards a new type of magnetoelectric coupling in artificial multiferroics with  $\gamma$ -Fe as the magnetic component”, submitted to Nano Letters.
- 23) A.R.G. Costa, U. Wahl, J.G. Correia, E. Bosne, L.M. Amorim, V. Augustyns, D.J. Silva, M.R. da Silva, K. Bharuth-Ram, and L.M.C. Pereira: “Lattice location of implanted transition metals in 3C-SiC”, submitted to Journal of Physics D: Applied Physics.

**Theses 2012-2016:**

1) Sept. 2012 - July 2013: Valérie Augustyns (IKS, KU Leuven, Belgium) **Masters thesis** on “Lattice location of implanted Mn and Ni in Ge”, 57 pages (supervisors A. Vantomme, L. Pereira).

<https://cds.cern.ch/record/1596044>, CERN-THESIS-2013-116.

2) Jan. 2013 - Dec. 2013: Eric David Bosne (Faculdade de Ciências da Universidade de Aveiro, Portugal) **Masters thesis** on “Timepix and FitPix detection system for RBS/C materials analysis”, 70 pages, finished with defense on 13.12.2013 (supervisors V. Amaral, U. Wahl).

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3) Jan. 2011 - Dec. 2014: Daniel José da Silva (Faculdade de Ciências da Universidade do Porto, Portugal) **PhD thesis** on “Lattice location of transition metals in Si by means of emission channeling”, 210 pages, finished with defense on 19.12.2014 (supervisors J.P. Araújo, J.G. Correia, U. Wahl).

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4) June 2014 – June 2015: Arnaud de Coster (IKS, KU Leuven, Belgium) **Masters thesis** on “Lattice location of Mn in GaAs and GaN”, 76 pages, (supervisors L. Pereira, A. Vantomme, K. Temst).

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5) Jan. 2010 - Dec. 2016: Lígia Marina Pinto de Almeida Amorim (IKS, KU Leuven, Belgium) **PhD thesis** on “Lattice site location of electrical dopant impurities in group III-nitrides”, 212 pages, finished with defense on 21.12.2016 (supervisors A. Vantomme, K. Temst, U. Wahl).

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**Ongoing theses:**

- 6)** Since Nov. 2012: Ângelo Costa (Instituto Superior Técnico, Universidade de Lisboa) **PhD thesis** on “Ion implantation doping of SiC” (supervisors U. Wahl, J.G. Correia).
- 7)** Since Sept. 2013: Valérie Augustyns (IKS, KU Leuven, Belgium) **PhD thesis** on “Lattice location experiments of transition-metal doped oxides” (supervisors L. Pereira, K. Temst).
- 8)** Since Jan. 2014: Eric David Bosne (Instituto Superior Técnico, Universidade de Lisboa) **PhD thesis** on “Emission channeling lattice location studies in semiconductors using highly pixellated TimePix detectors” (supervisors U. Wahl, J.G. Correia).
- 9)** Since Nov. 2014: Tiago Lima (IKS, KU Leuven, Belgium) **PhD thesis** on “Local structure and magnetism of dilute magnetic semiconductors” (supervisors L. Pereira, A. Vantomme).