## Bruno Ximenez

Curriculum Vitae

Doctorat en physique | Métrologie | Atomes froids | Photonics, Diode laser, UV/IR/Visible | Electronics | Python

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<b>Doctorat:</b> Spectroscopie à laser d'antihydrogène et symétries fondamentales, CERN/Aarhus Université—Danemark.  Cette recherche a été développée au CERN dans le cadre de la collaboration ALPHA. Parmi les nombreux résultats obtenus, le plus important est la détermination ultra précise de la fréquence absolue de la transition atomique en antihydrogène.				
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nes sur				
Autres diplômes et formations pertinentes				
Formation aux peignes de fréquence, Menlo Systems, Allemagne.				
ésil.				
Diplôme de technicien en électronique, Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, CEFET/RJ, Brésil.				
gues, cuisine, football, cyclisme, lit-				
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## Articles publiés

- 2020 Ahmadi, M., Alves, B.X.R., Baker, C.J. et al. Investigation of the fine structure of antihydrogen. Nature 578, 375–380 (2020).
- 2018 Ahmadi, M., **Alves, B.X.R.**, Baker, C.J. et al. "Observation of the 1S–2P Lyman- $\alpha$  transition in antihydrogen". **Nature, vol. 561 (2018)**
- 2018 Ahmadi, M., Alves, B.X.R., Baker, C.J. et al. "Characterization of the 1S–2S transition in antihydrogen". Nature, vol. 557 (2018)
- 2018 Ahmadi, M., Alves, B.X.R., Baker, C.J. et al. "Enhanced Control and Reproducibility of Non-Neutral Plasmas". Physical Review Letters 120, (2018)
- 2017 Ahmadi, M., Alves, B.X.R., Baker, C.J. et al. "Antihydrogen accumulation for fundamental symmetry tests". Nature Communications, vol. 8 (2017)
- 2017 Ahmadi, M., Alves, B.X.R., Baker, C.J. et al. "Observation of the hyperfine spectrum of antihydrogen". Nature, vol. 548 (2017)
- 2016 Ahmadi, M., **Alves, B.X.R.**, Baker, C.J. et al. "Observation of the 1S–2S transition in trapped antihydrogen". **Nature, vol. 541 (2016)**
- 2015 Sacramento R, Oliveira A, **Alves B**, Silva B, Li M, Wolff W, Cesar C. "Matrix isolation sublimation: An apparatus for producing cryogenic beams of atoms and molecules". **Review of Scientific Instruments, vol. 86 (2015)**
- 2014 Oliveira A, Sacramento R, Alves B, Silva B, Wolff W, Cesar C. "Slow ground state molecules from matrix isolation sublimation". Journal of Physics B: Atomic, Molecular and Optical Physics, vol. 47 (2014) p. 245302
- 2012 Sacramento R , **Alves B**, Almeida D, Wolff W, Li M, Cesar C. "Source of slow lithium atoms from Ne or H 2 matrix isolation sublimation" **Journal of Chemical Physics, vol. 136 (2012)**