

# VU Research Portal

## Towards Doppler-free two-photon spectroscopy of trapped and cooled HD<sup>+</sup> ions

Patra, S.

2019

### **document version**

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

### **citation for published version (APA)**

Patra, S. (2019). *Towards Doppler-free two-photon spectroscopy of trapped and cooled HD<sup>+</sup> ions*.

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

### **E-mail address:**

[vuresearchportal.ub@vu.nl](mailto:vuresearchportal.ub@vu.nl)

VRIJE UNIVERSITEIT AMSTERDAM

# Towards Doppler-free two-photon spectroscopy of trapped and cooled $\text{HD}^+$ ions

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor of Philosophy  
aan de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. V. Subramaniam,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Bètawetenschappen  
op donderdag 9 mei 2019 om 11.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

Sayan Patra  
geboren te Burdwan, India

promotoren: prof.dr. W.M.G. Ubachs  
                  prof.dr. K.S.E. Eikema  
copromotor: dr. J.C.J. Koelemeij

