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The Netherlands

## Resonant inelastic x-ray scattering studies of elementary excitations

Ament, L.J.P.

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## Chapter 2

### **Resonant Inelastic X-ray Scattering Studies of Elementary Excitations**

Luuk J. P. Ament, Michel van Veenendaal, Thomas P. Devereaux, John P. Hill, Jeroen van den Brink  
eprint arXiv:1009.3630  
09/2010

<http://arxiv.org/abs/1009.3630>

## Chapter 3

### **Ultrashort lifetime expansion for indirect resonant inelastic x-ray scattering**

Luuk J. P. Ament, Filomena Forte, and Jeroen van den Brink  
Phys. Rev. B 75, 115118 (2007)

<http://dx.doi.org/10.1103/PhysRevB.75.115118>

## Chapter 4

### **Magnetic excitations in $\text{La}_2\text{CuO}_4$ probed by indirect resonant inelastic x-ray scattering**

Filomena Forte, Luuk J. P. Ament, and Jeroen van den Brink  
Phys. Rev. B 77, 134428 (2008)

<http://dx.doi.org/10.1103/PhysRevB.77.134428>

### **Theoretical Demonstration of How the Dispersion of Magnetic Excitations in Cuprate Compounds can be Determined Using Resonant Inelastic X-Ray Scattering**

Luuk J. P. Ament, Giacomo Ghiringhelli, Marco Moretti Sala, Lucio Braicovich, and Jeroen van den Brink  
Phys. Rev. Lett. 103, 117003 (2009)

<http://dx.doi.org/10.1103/PhysRevLett.103.117003>

## Chapter 5

### **Single and Double Orbital Excitations Probed by Resonant Inelastic X-Ray Scattering**

Filomena Forte, Luuk J. P. Ament, and Jeroen van den Brink  
Phys. Rev. Lett. 101, 106406 (2008)

<http://dx.doi.org/10.1103/PhysRevLett.101.106406>

### **Theory of Raman and resonant inelastic x-ray scattering from collective orbital excitations in $\text{YTiO}_3$**

L. J. P. Ament, G. Khaliullin  
Phys. Rev. B 81, 125118 (2010)

<http://dx.doi.org/10.1103/PhysRevB.81.125118>

## Chapter 6

**Resonant Inelastic X-ray Scattering on Spin-Orbit Coupled Insulating Iridates**

Luuk J.P. Ament, Giniyat Khaliullin, Jeroen van den Brink

eprint arXiv:1008.4862

08/2010

<http://arxiv.org/abs/1008.4862>