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### Self-assembly via anisotropic interactions

*Modeling association kinetics of patchy particle systems and self-assembly induced by critical Casimir forces*

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# List of publications

Publications related to this thesis:

- **Chapter 3**

Newton, A. C.<sup>2,4,5</sup>; Nguyen, A.<sup>3</sup>; Veen, S. J.<sup>3</sup>; Kraft, D. J.<sup>3</sup>; Schall, P.<sup>1,5</sup>; Bolhuis, P. G.<sup>1,4,5,6</sup>; *in review*, Modeling critical Casimir force induced self-assembly experiments on patchy colloidal dumbbells

- **Chapter 4**

Newton, A. C.<sup>2,4,5</sup>; Groenewold, J.<sup>1</sup>; Kegel, W. K.<sup>1,5</sup>; Bolhuis, P. G.<sup>1,4,5,6</sup>; *Proceedings of the National Academy of Sciences*, **112**, 15308, 2016, Rotational diffusion affects the dynamical self-assembly pathways of patchy particles

- **Chapter 5**

Newton, A. C.<sup>2,4,5</sup>; Groenewold, J.<sup>1</sup>; Kegel, W. K.<sup>1</sup>; Bolhuis, P. G.<sup>1,5,6</sup>; *in preparation*, The role of multivalency in the association kinetics of patchy particle complexes

- **Chapter 6**

Newton, A. C.<sup>1,2,4,5</sup>; Kools, R.<sup>2</sup>; Swenson, D. W. H.<sup>1,5</sup>; Bolhuis, P. G.<sup>1,5,6</sup>; *in preparation*, The opposing effects of isotropic and anisotropic attraction on dimerization kinetics

<sup>1</sup> Design research

<sup>2</sup> Performed research (simulations)

<sup>3</sup> Performed research (experiments)

<sup>4</sup> Analysis data

<sup>5</sup> Preparation manuscript

<sup>6</sup> Project supervision