

Nonlinear Optical Responses in Hydrogenated Graphene Structures

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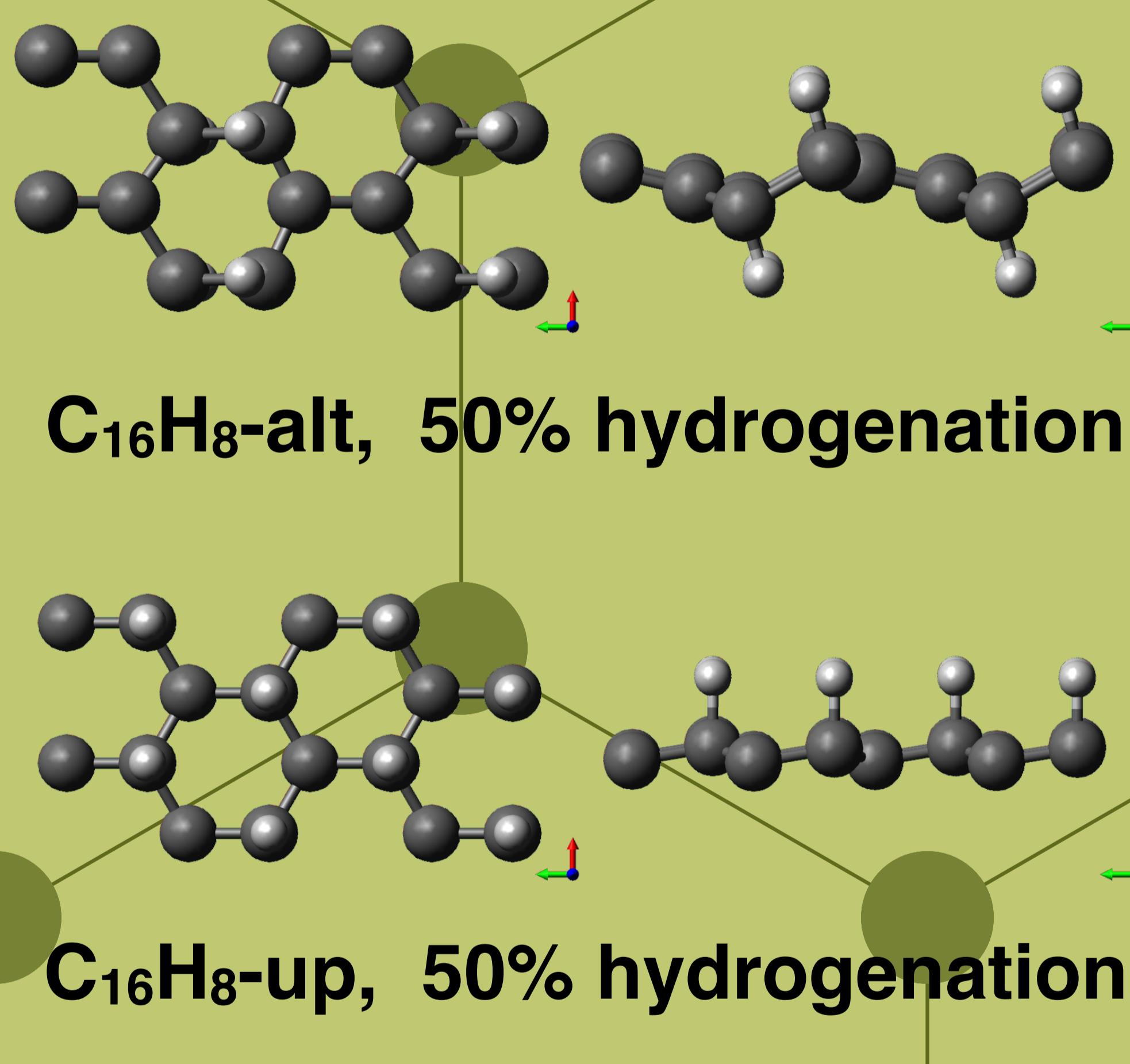
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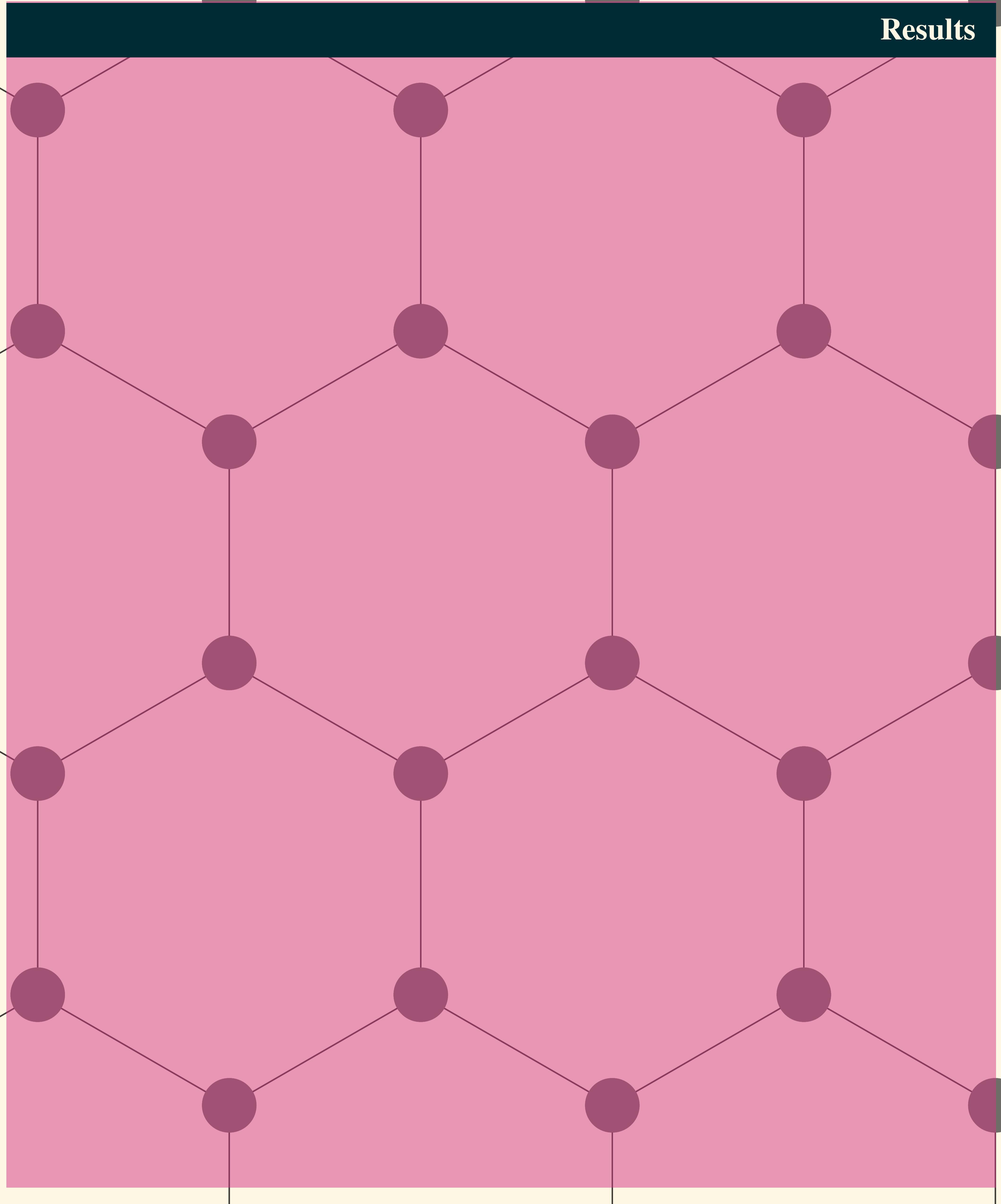
Introduction

Graphene has become a matter of interest in science and technology. The band-gap opening can be reached through hydrogenation. We characterised the degree of spin polarization, optical current injection, and second harmonic generation in two hydrogenated graphene structures presenting a gap: C₁₆H₈-alt and C₁₆H₈-up. Our results show an anisotropic behaviour in the optical responses.

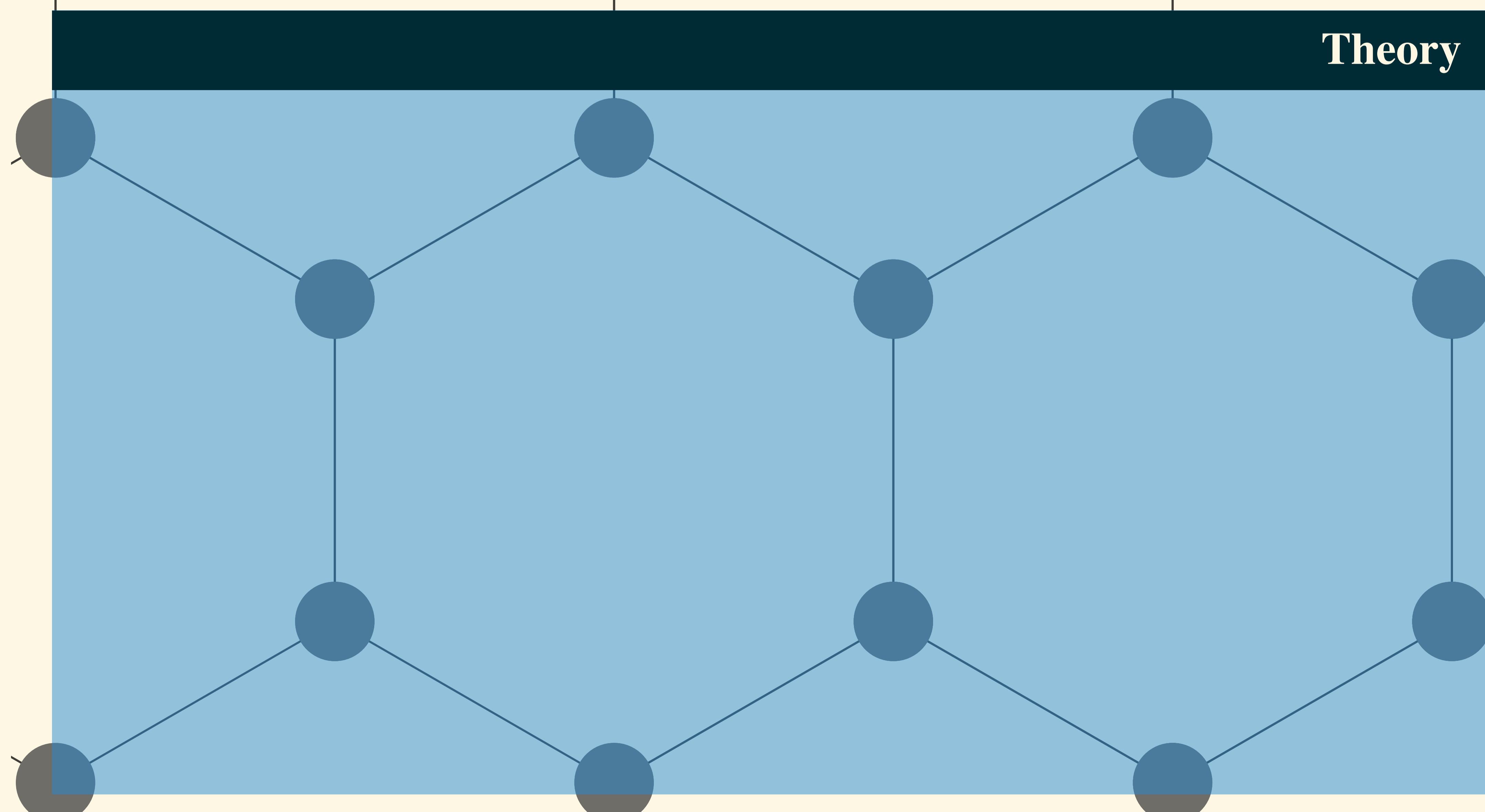
Structures



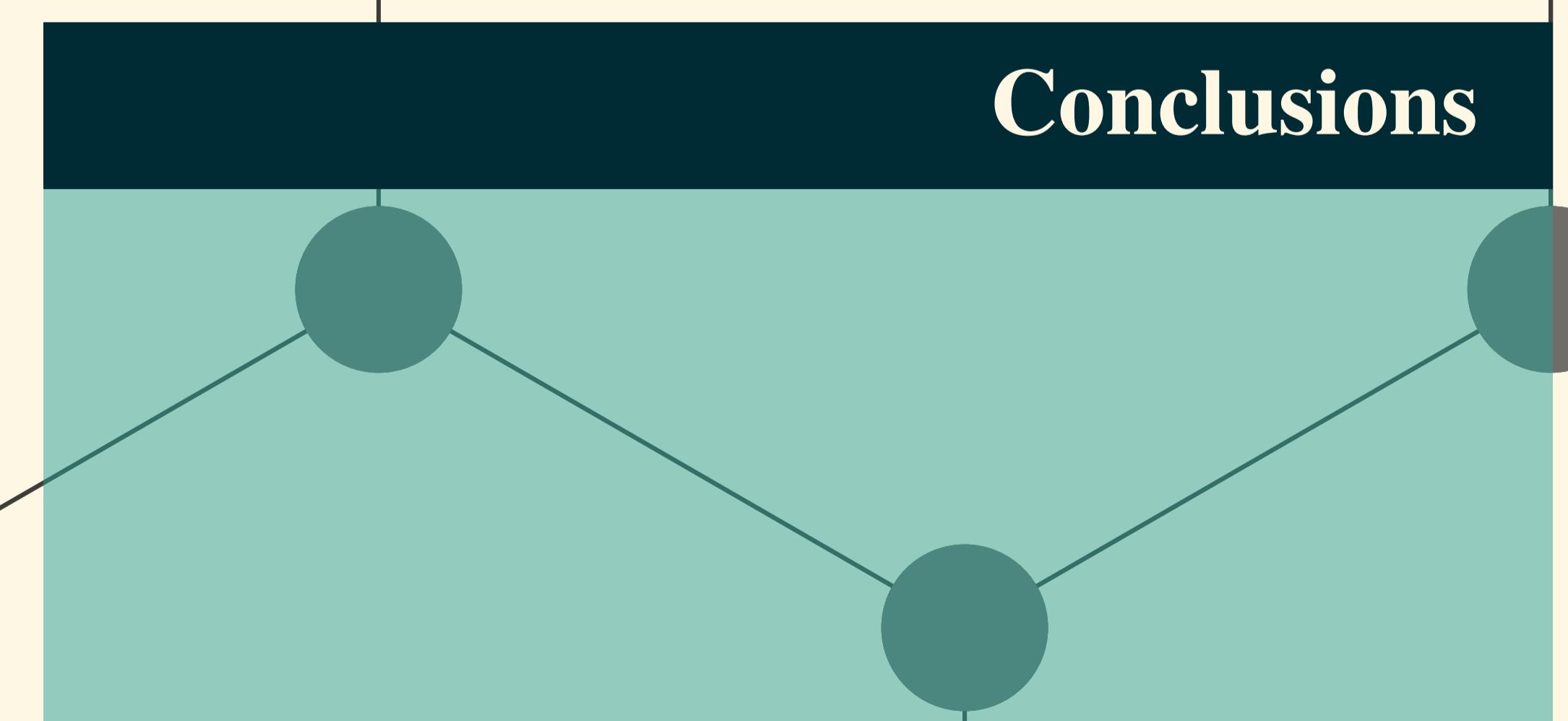
Results



Theory



Conclusions



Information

