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On- and off-resonance measurement of the Image State lifetime at the graphene/Ir(111) interface

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Highlights

- Surface states at the graphene/Ir(111) interface
- Optical Bloch Equations for a two levels system have been employed to estimate the depopulation and the dephasing time from the experimental results
- Dependence of the Image State depopulation time on the excitation channel
- The depopulation time of the Image State becomes four times longer when it is resonantly populated from the surface state

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