

Alignment of Light and Mass in Lensing Galaxies

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ABSTRACT

Key words: Gravitational lensing: strong — galaxies: structure

1 INTRODUCTION

Content:

- Understand galaxy structure
- Relevant to understand and discriminate between e.g. weak lensing (Intrinsic alignments) and alternative gravity theories
- Strong lensing reacts purely due to total mass distribution → Can disentangle light and mass
- Free-form modelling technique, less model bias

2 DATA

Content:

- Describe data set (why this data set, special features of galaxies (environment: y/n/unknown, elliptical/disk))

3 METHOD

Content:

- Describe GLASS
- Describe shape measure and link it with Coles, Read and Saha 2014

4 RESULTS

Content:

- Describe special features in reconstructed lenses
- Show the wedges money plot
- Discuss the results, especially:
 - 1. Dark matter halos seem quite round, stars not necessarily

- 2. Dark matter halos are consistently more elliptical than stars
- 3. Rather elliptical dark matter halos are more aligned, otherwise not really a clear trend
- 4. There does not seem to be a trend of lenses being misaligned because of shear

5 CONCLUSION

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6 ACKNOWLEDGEMENTS

Acknowledge Dominik Leier, ...

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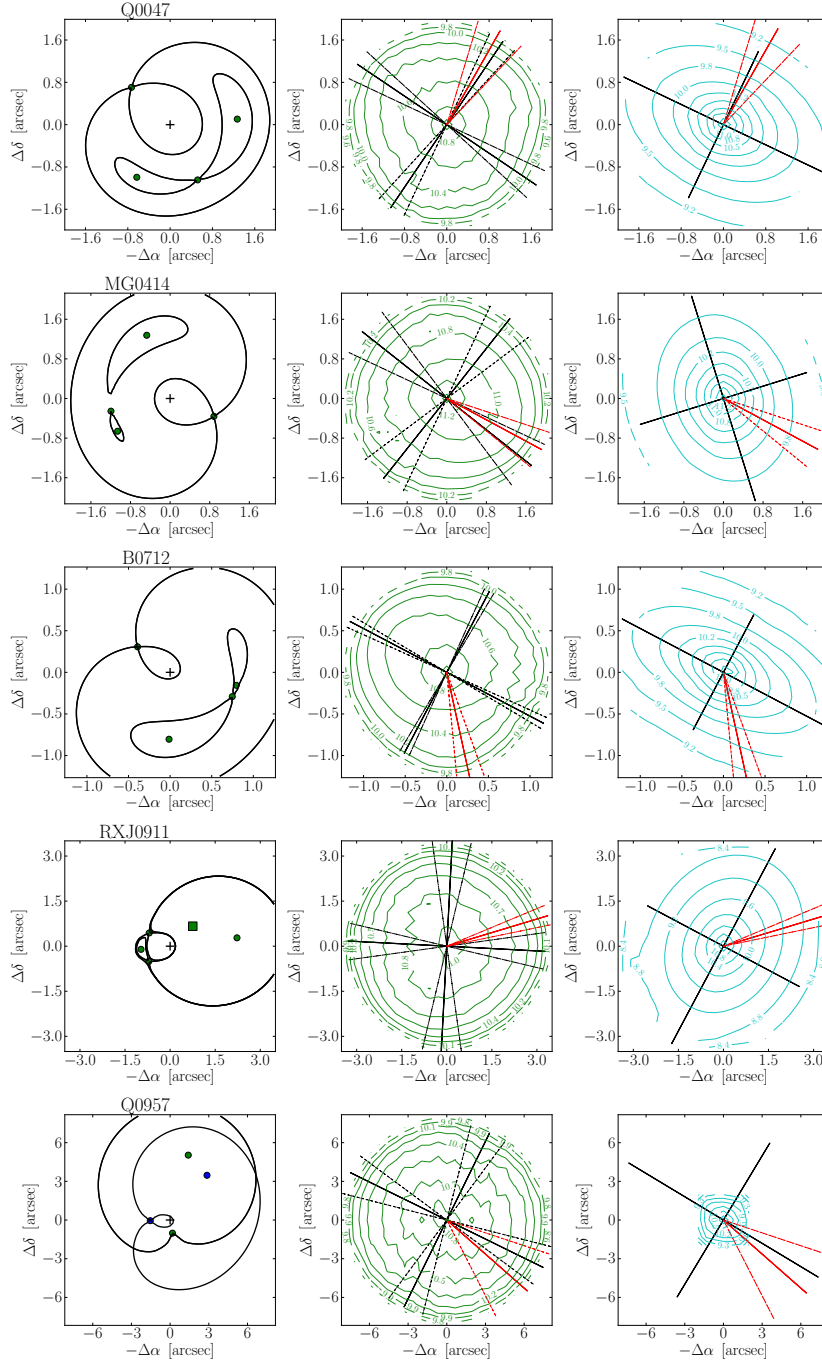
REFERENCES

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Table 1. Table with lens properties

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Table 2. Table with lens properties relevant for modelling (point masses, positions, time delays)**Figure 1.**

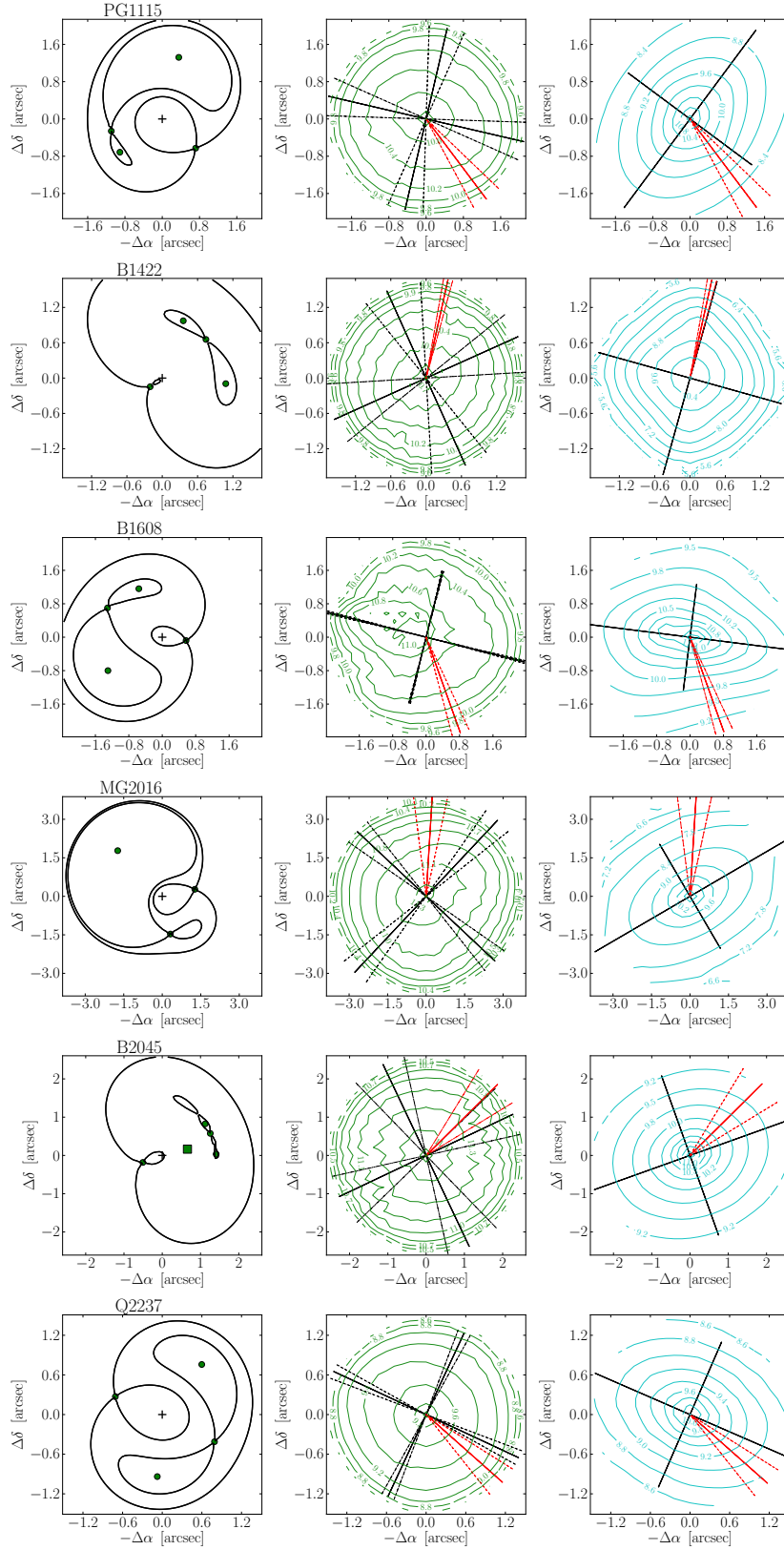


Figure 2.

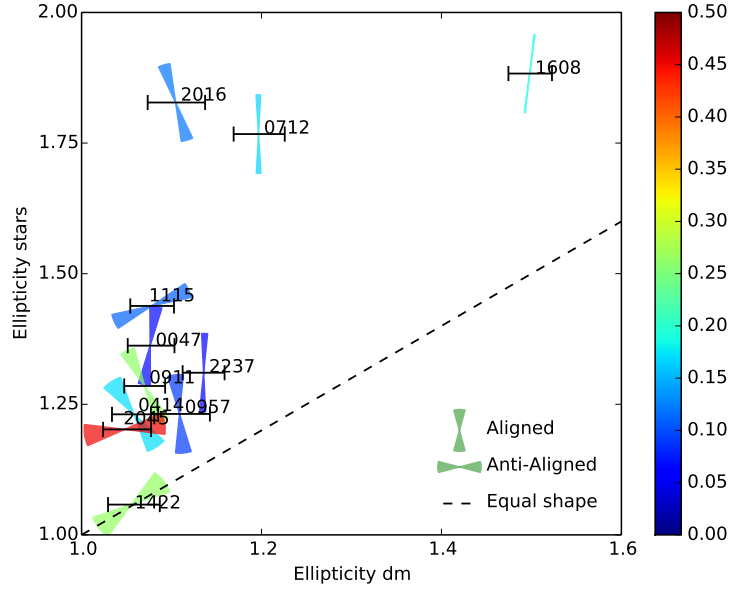


Figure 3.