

Table of content

1. Introduction	1
1.1. Motivation	1
1.2. Young stellar objects and circumstellar discs	2
1.3. Planetary formation	3
1.4. Observations of the gas component	4
1.5. Theories that explain the formation of dust rings and cavities	4
1.6. Warped morphologies in protoplanetary discs	5
1.7. Ophiuchus DIsc Survey Employing ALMA (ODISEA) Project	7
2. Observations	8
2.1. The ODISEA long-baseline sample	8
2.2. Line imaging process	9
3. Analysis	11
3.1. Measurement of disc position angles	11
3.2. Measurements of gas disc radii	16
3.3. Individual sources and channel maps	17
3.3.1. DoAr 44	17
3.3.2. RX J1633.9-2442	19
3.3.3. WSB 82	19
3.3.4. WLY 2-63	20
3.3.5. ISO-Oph 17	21
3.3.6. SR 24S	22
3.3.7. ISO-Oph 37	25
3.3.8. ISO-Oph 54	25
3.3.9. ISO-Oph 196	26
3.3.10. ISO-Oph 2	27
4. Discussion	29
4.1. Origin of dust rings and gaps in the ODISEA discs	30
4.2. Evidence of warped morphologies	30
5. Conclusion	32
Bibliography	34