Argelander-Institut für Astronomie

universitätbonn
Rheinische Friedrich-Wilhelms-Universität Bonn

Gruppe um Prof. Peter Schneider

Forschungsschwerpunkt Gravitationslinsen-Effekt und Kosmologie

Sprecher: Patrick Simon

Peter Schneider

Gruppe Prof. Peter Schneider

Chris Boever (Bachelorstudent),
Sabine Derdau (Sekretariat),
Dr. Thomas Erben,
Dominik Klaes (Doktorand),
Dr. Ole Marggraf,
Sandra Martin (Doktorandin),
Dr. Nicolas Martinet,
Dr. Reiko Nakajima,
Hananeh Saghiha (Doktorandin),
Dr. Tim Schrabback,
Shafiee Zeinab (Doktorandin),
Dr. Huan Yuan Shan,
Dr. Zahra Sheikhbahaee,
Prof. Dr. Peter Schneider,
Dr. Patrick Simon,
Dr. Malte Tewes,
Sandra Unruh (Doktorandin),
Jan-Luca van den Busch (Praktikant),
Rongchuan Zhao (Masterstudent)

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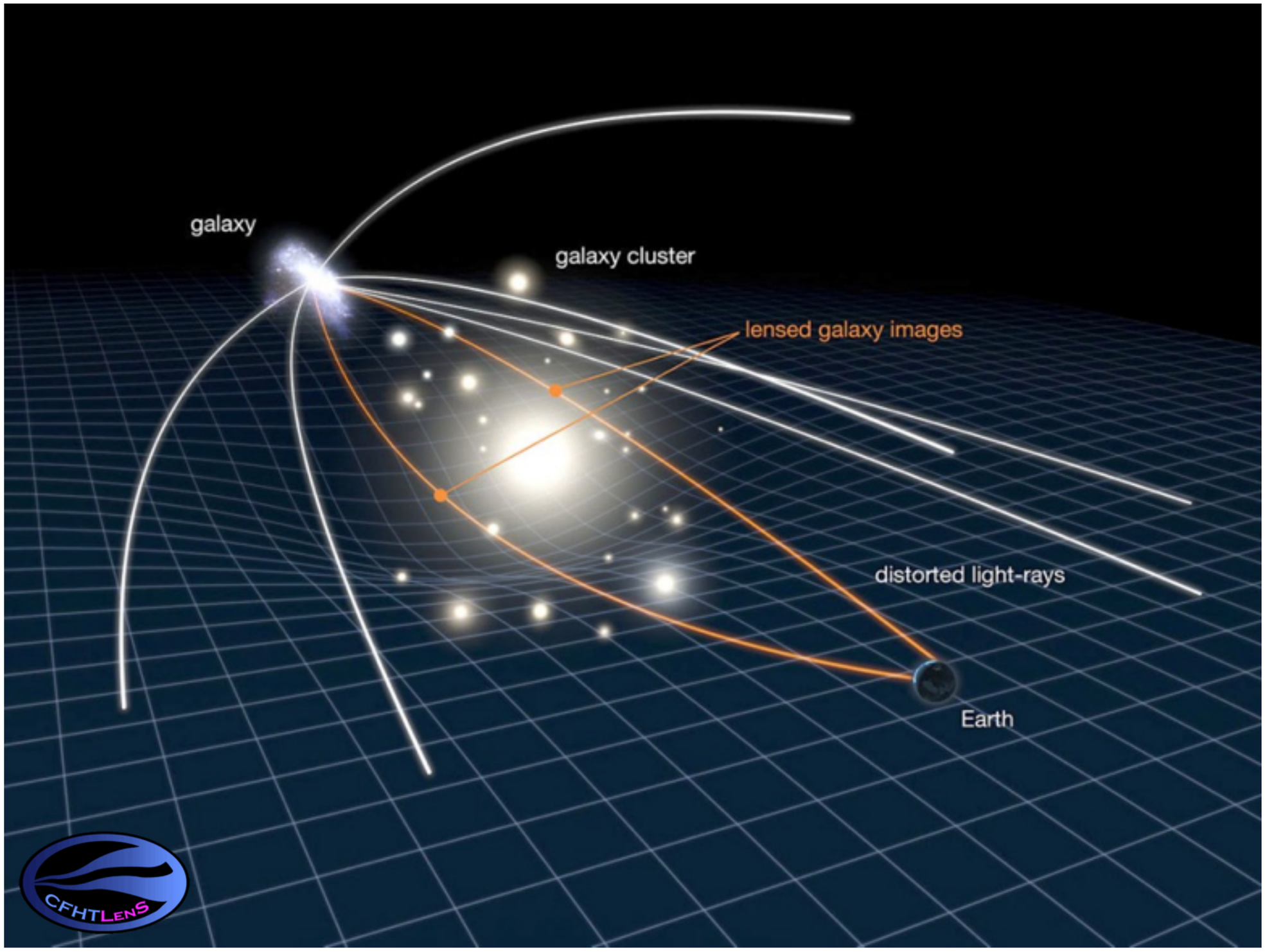
Illustration des Gravitationslinsen-Effekts an einem Galaxienhaufen



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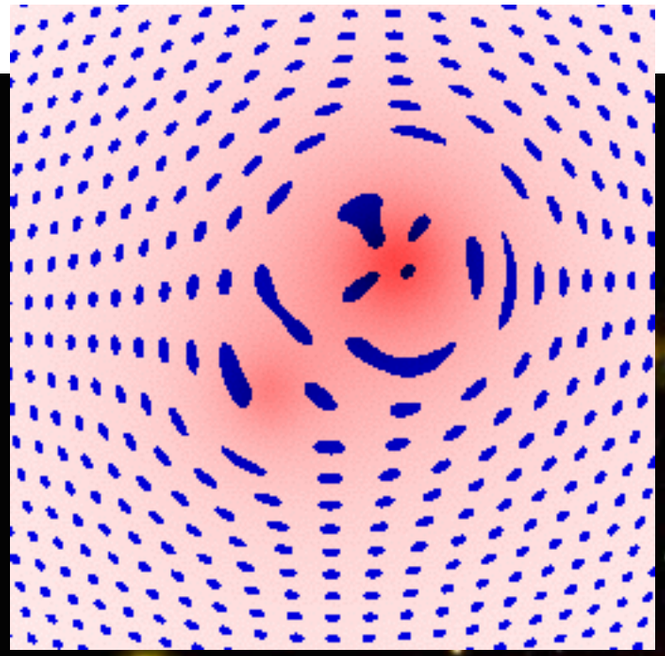

Abell 1689 by HST / NASA

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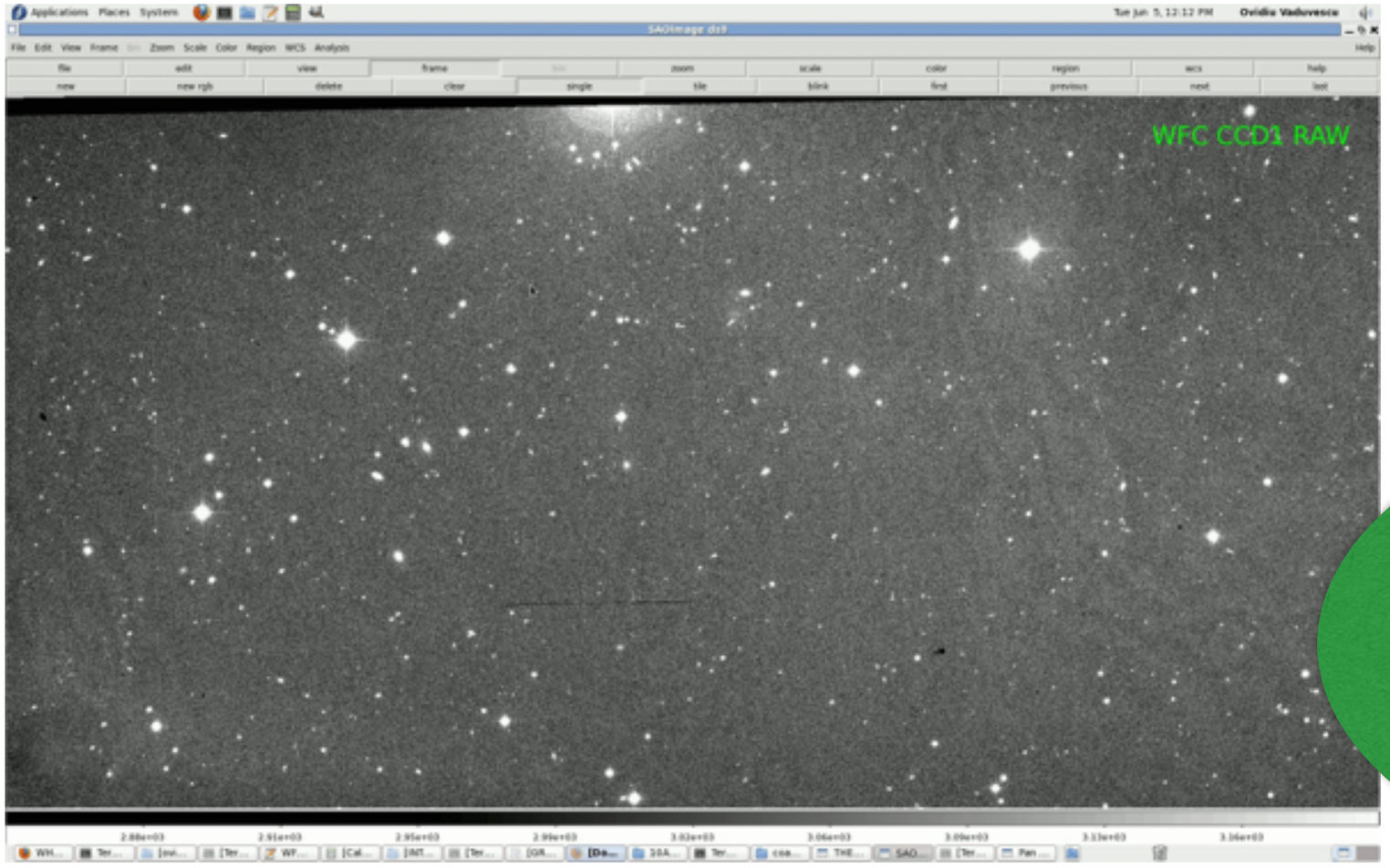
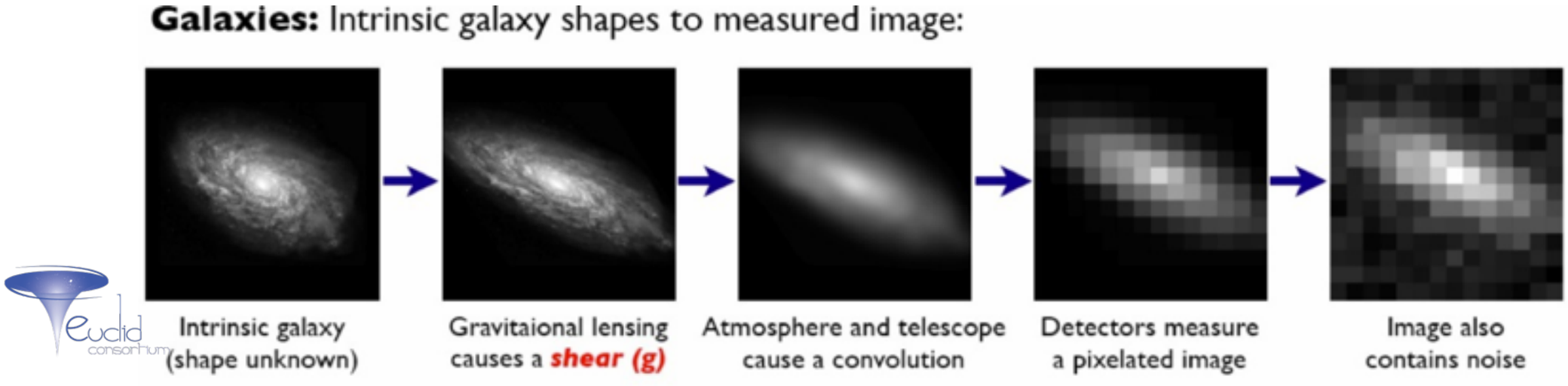


von Thomas Erben / Isaac Newton Group of Telescopes

Datenreduktion,
Objektidentifikation,
Photometrie,
Scherungsmessung



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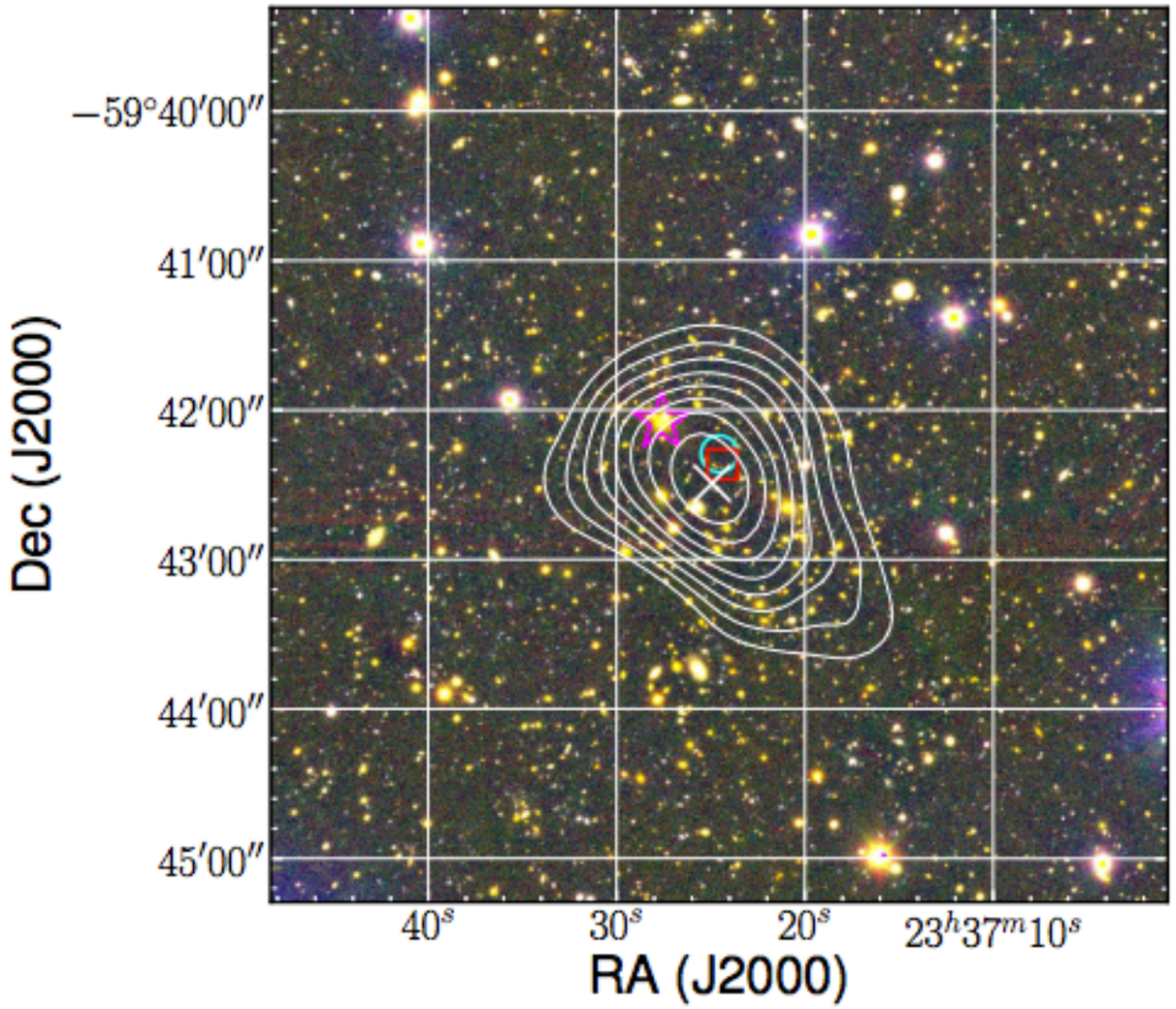
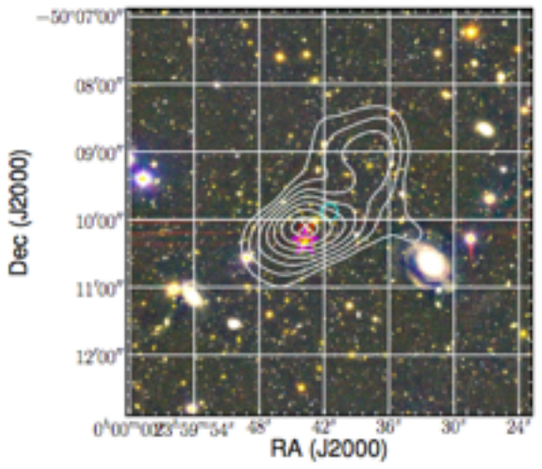
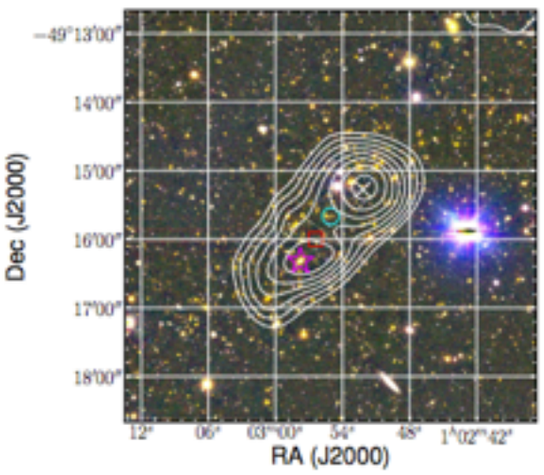
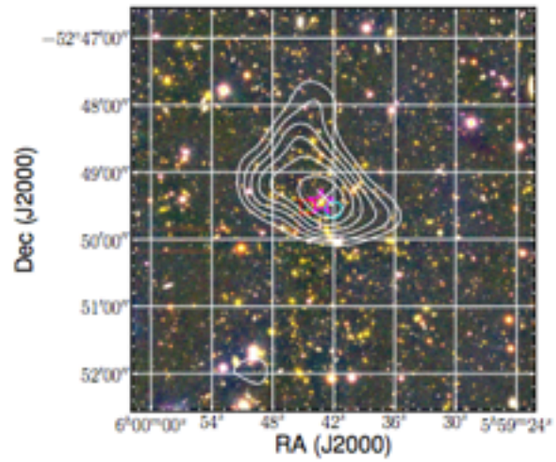




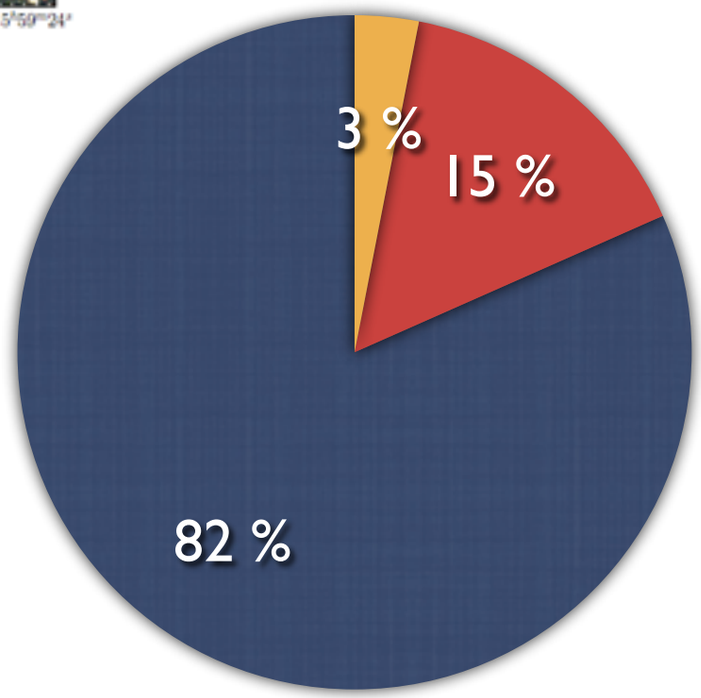




Schrabback, T. et al., 2016, MNRAS

Physik von Galaxienhaufen

- Galaxien
- intergalaktisches Gas
- Dunkle Materie



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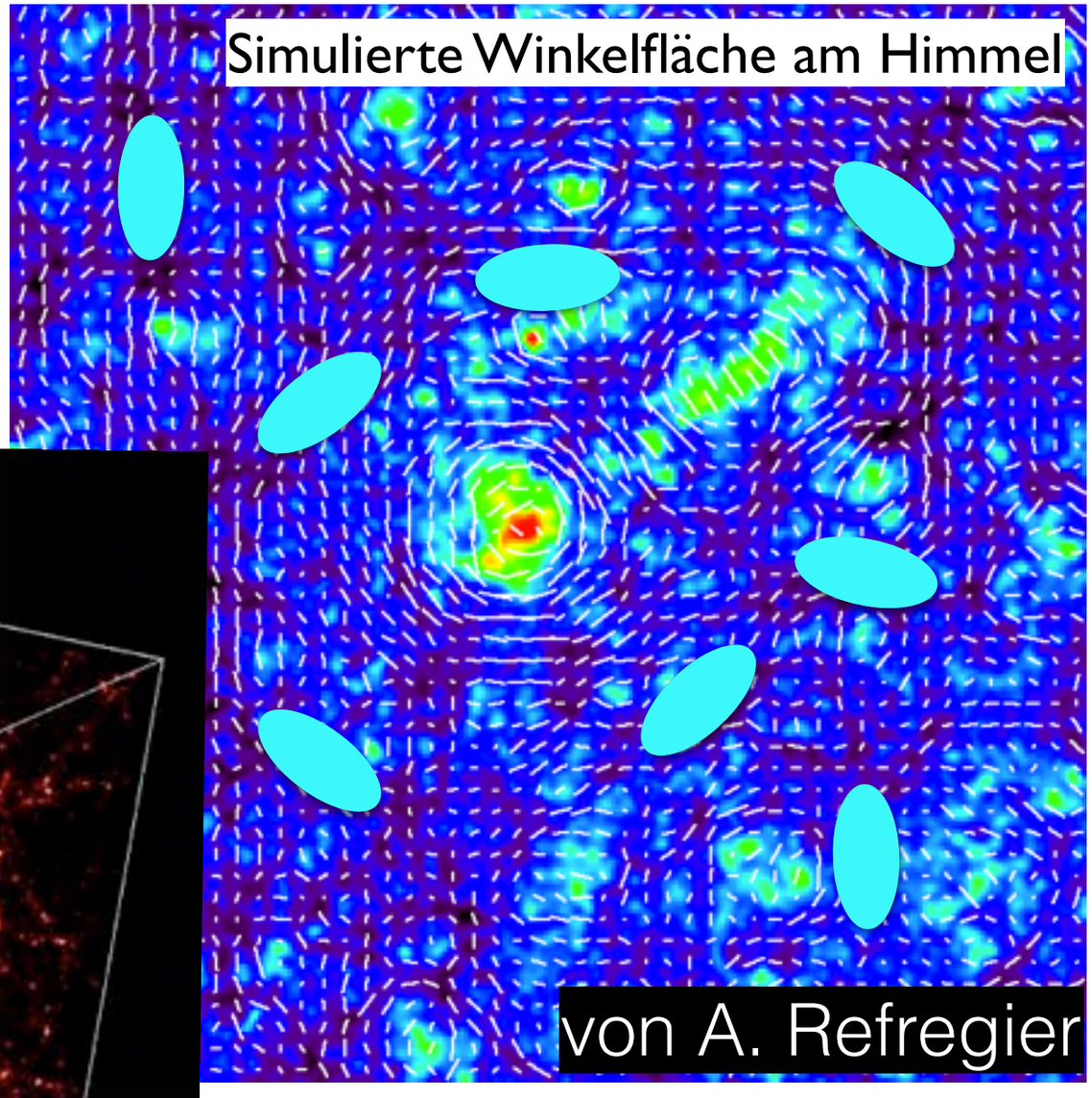

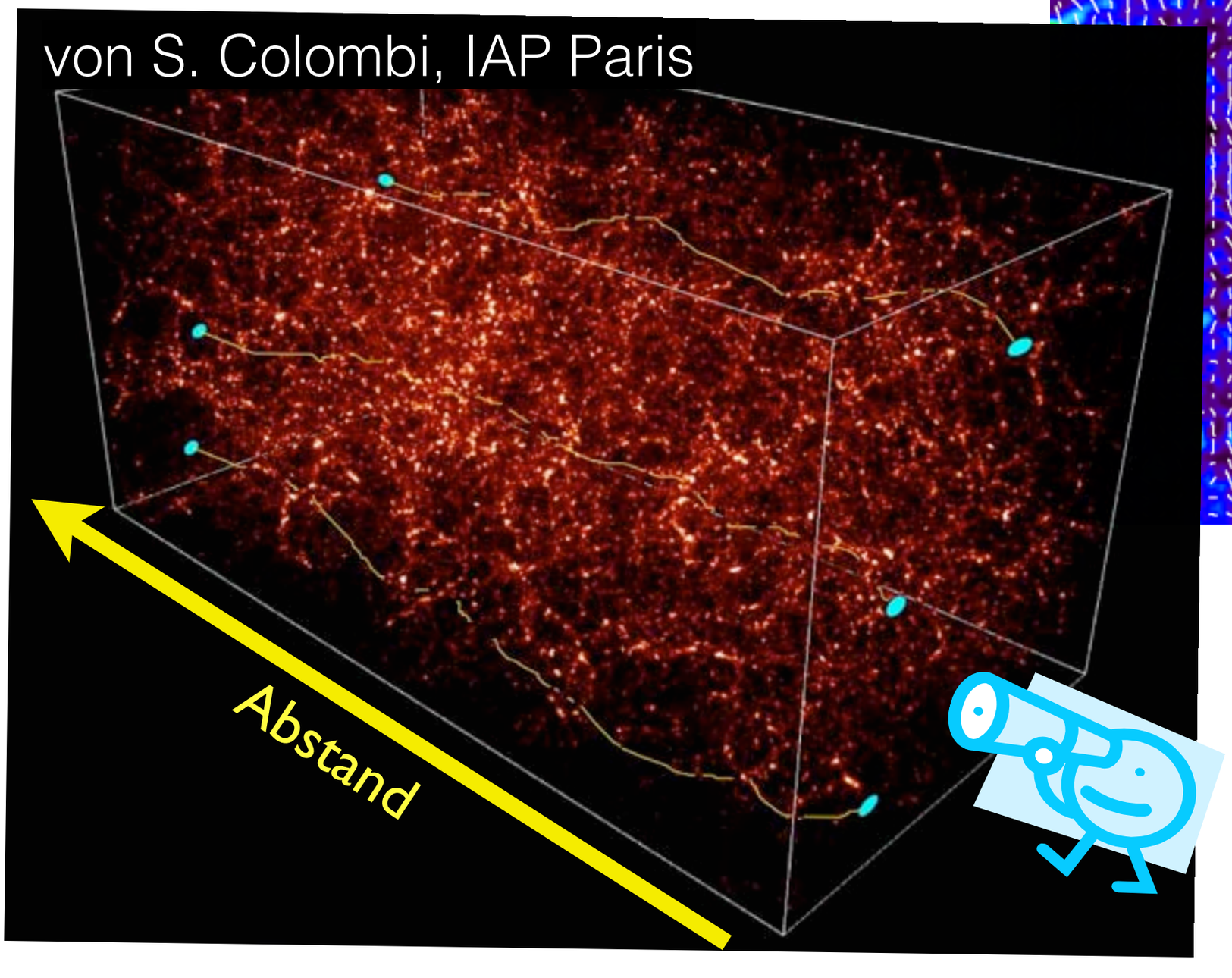

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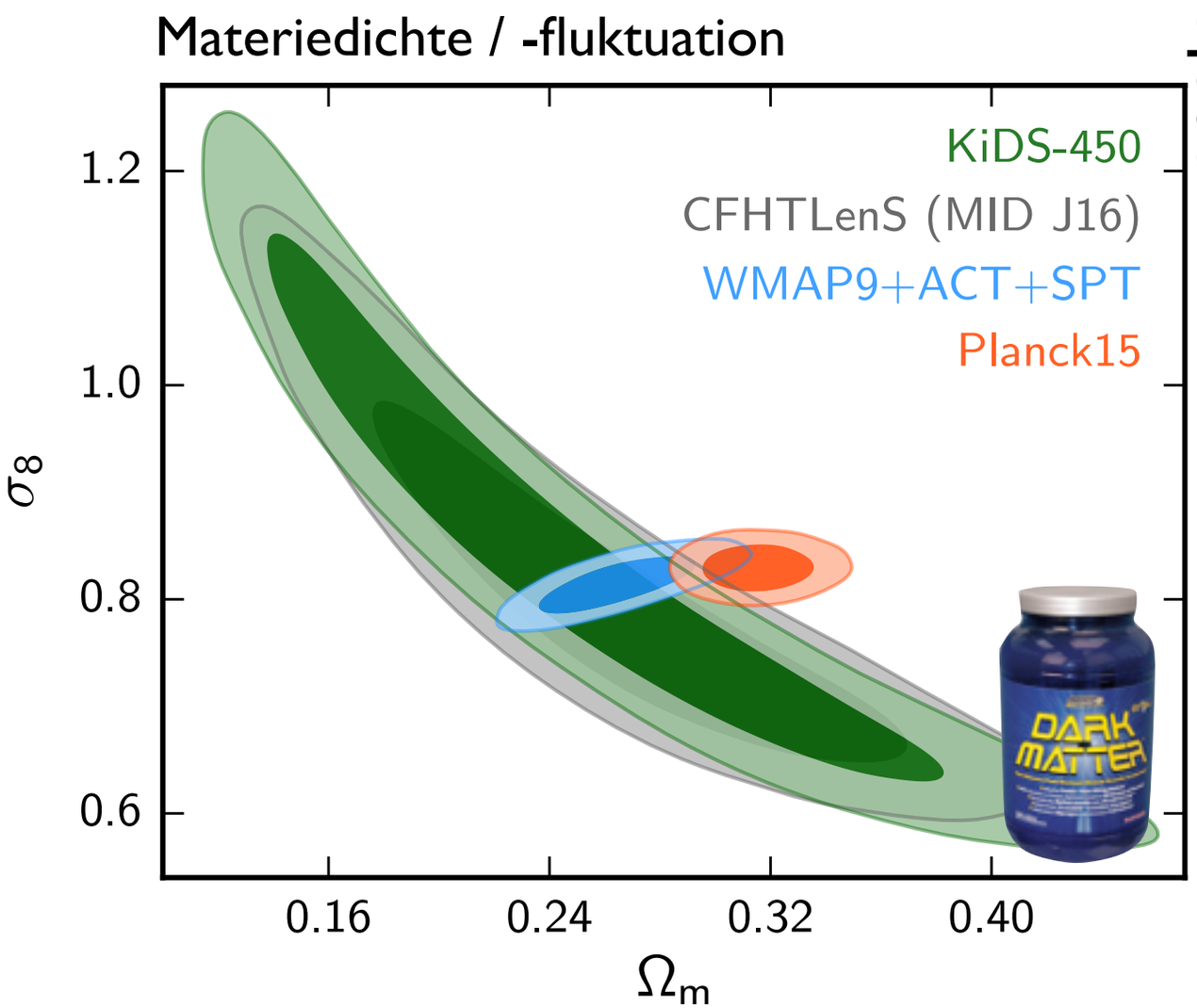
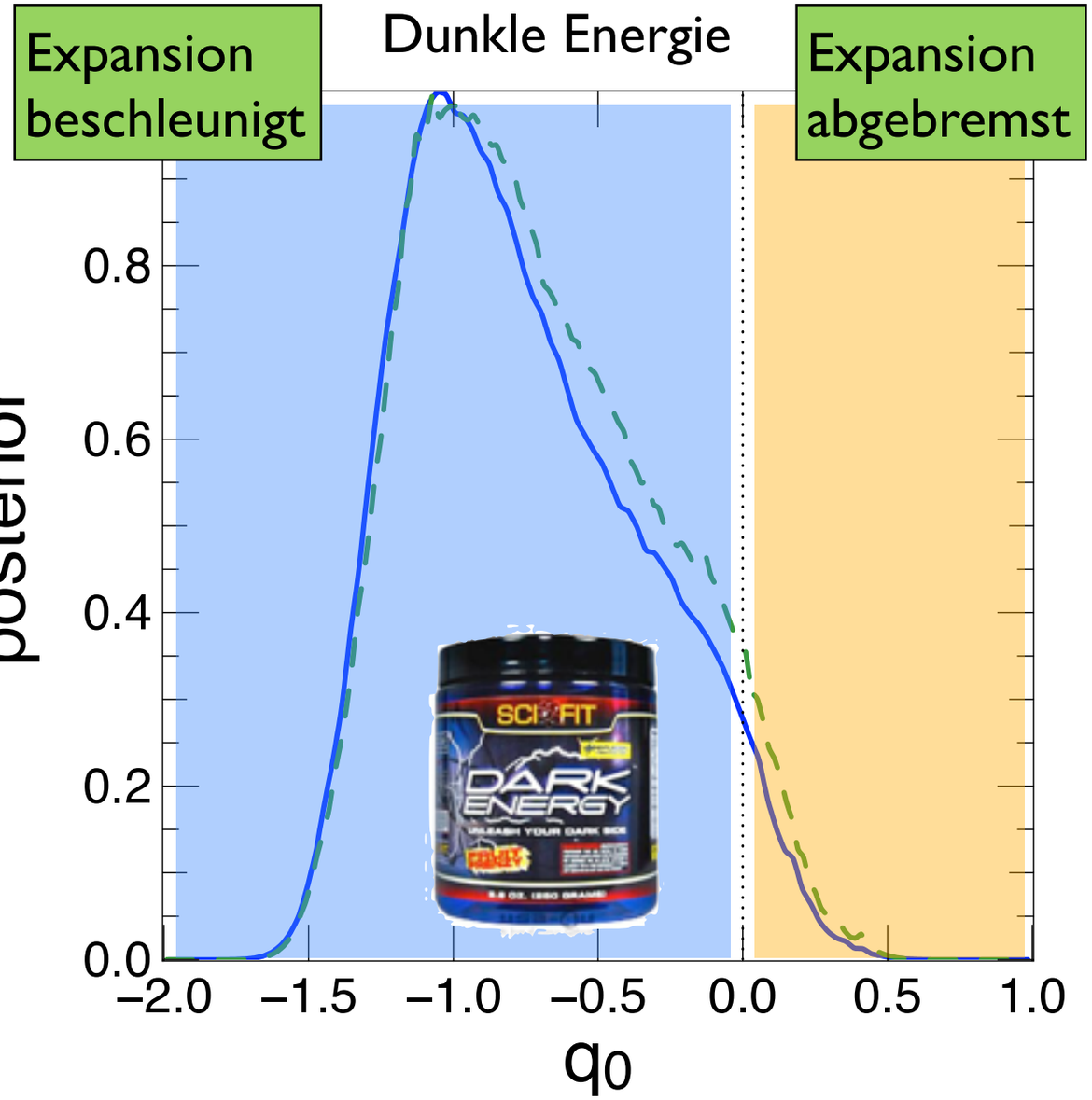
Kosmologische Messungen



Hildebrandt, H. & KiDS Consortium, 2016, MNRAS



Schrabback, T. et al., 2010, A&A, 516, 63

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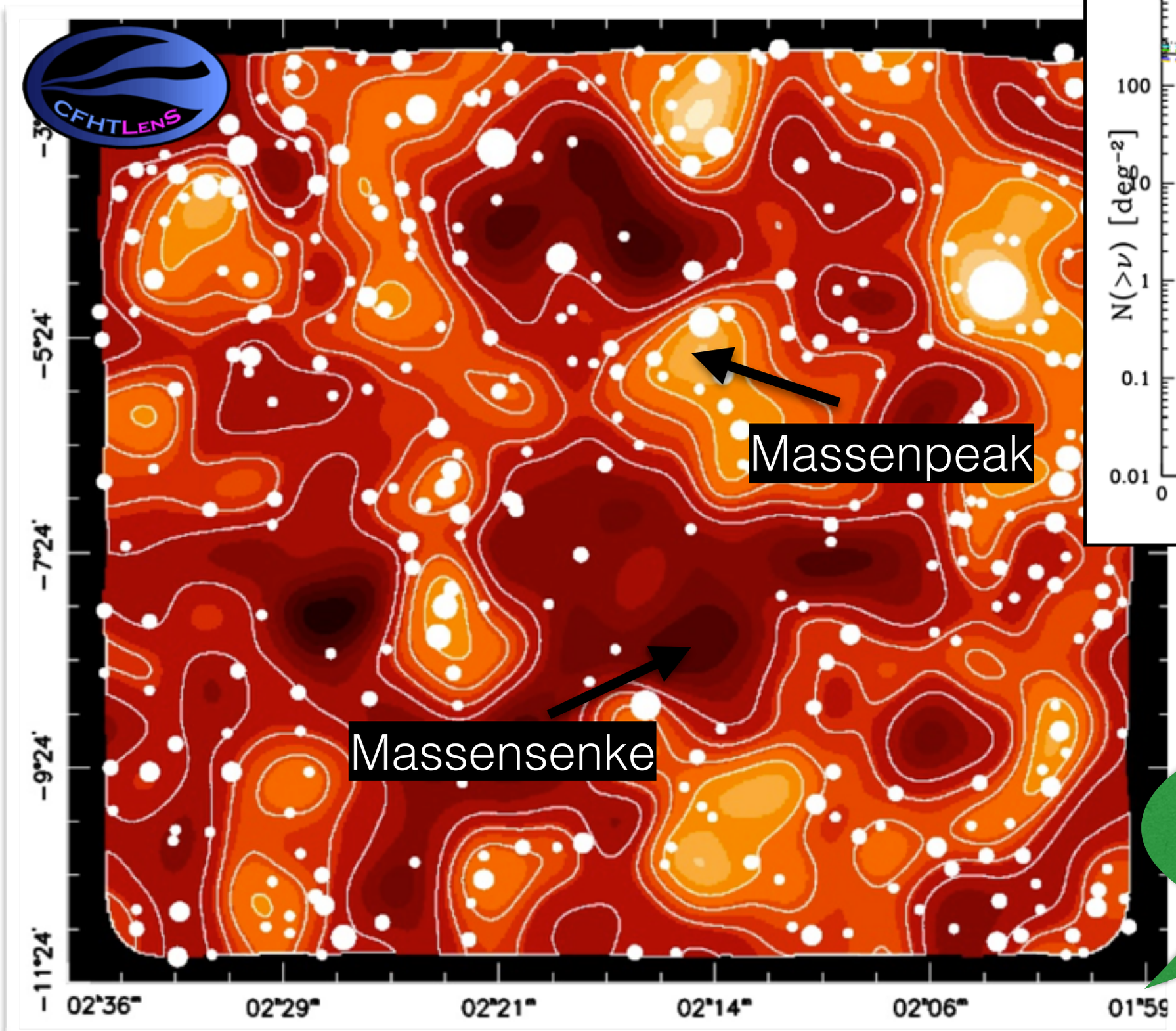
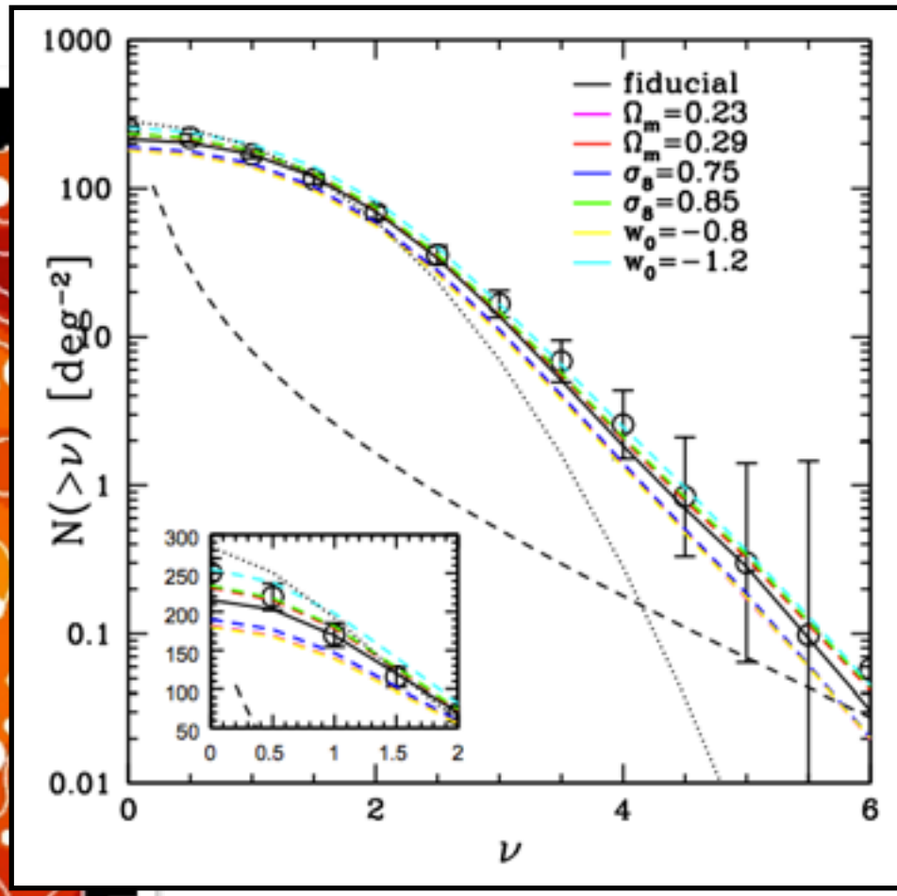


van Waerbeke, L. et al., 2013, MNRAS, 433, 337



Shan, H. et al., 2014, MNRAS, 442, 2534

Kartographie

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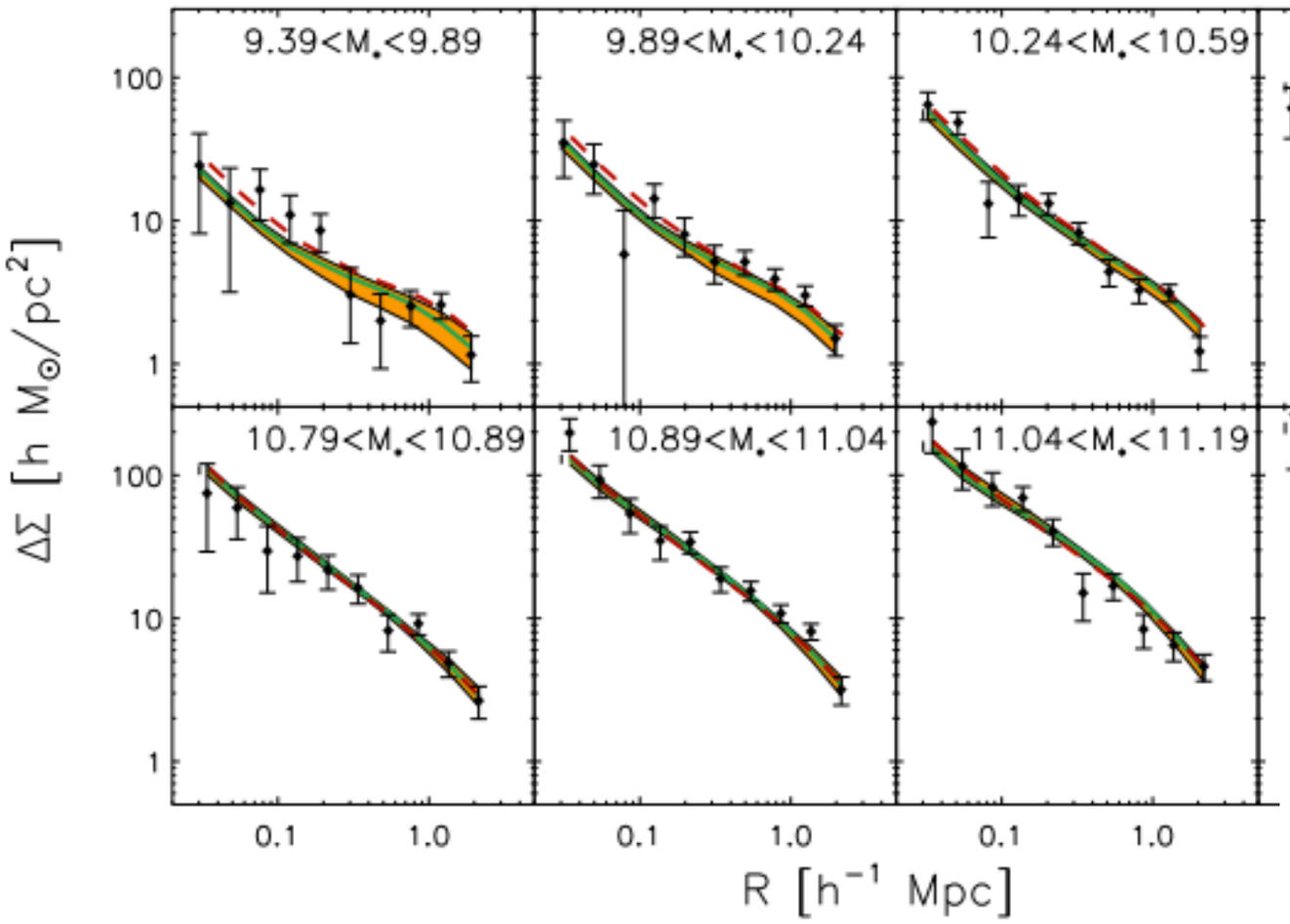
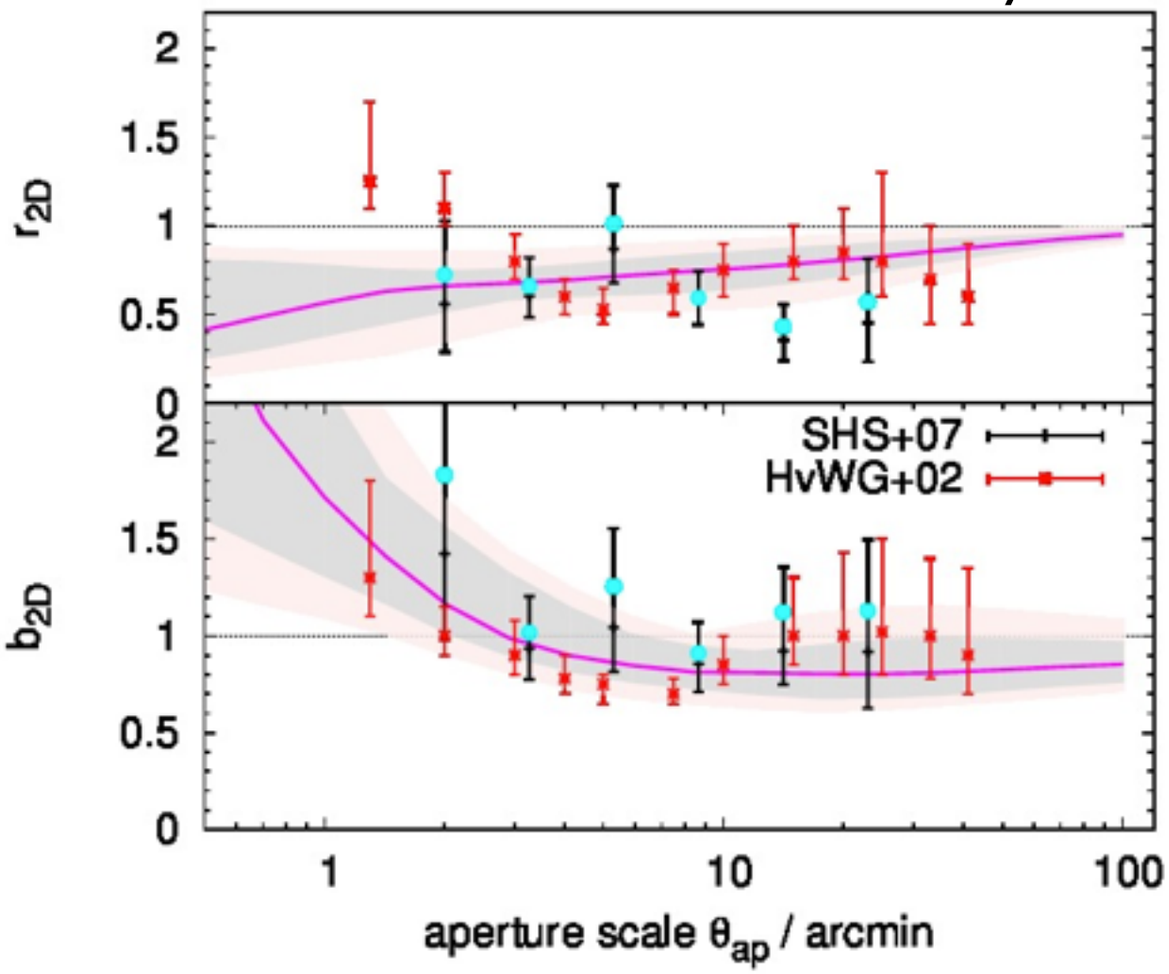
Galaxy-Galaxy Lensing



van Uitert, E. et al., 2016, MNRAS, 459, 325

Galaxy Bias



Korrelations-analysen

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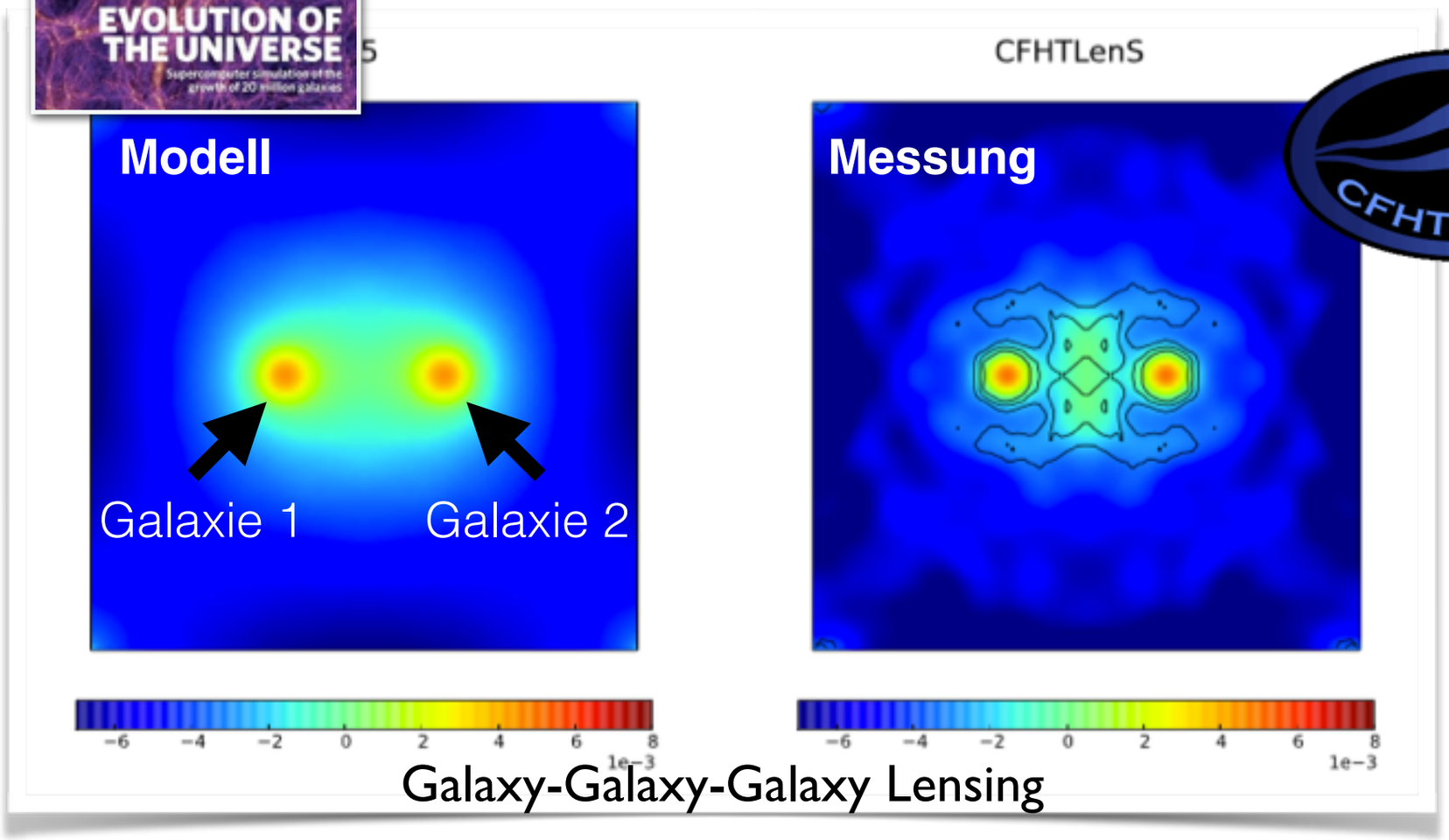
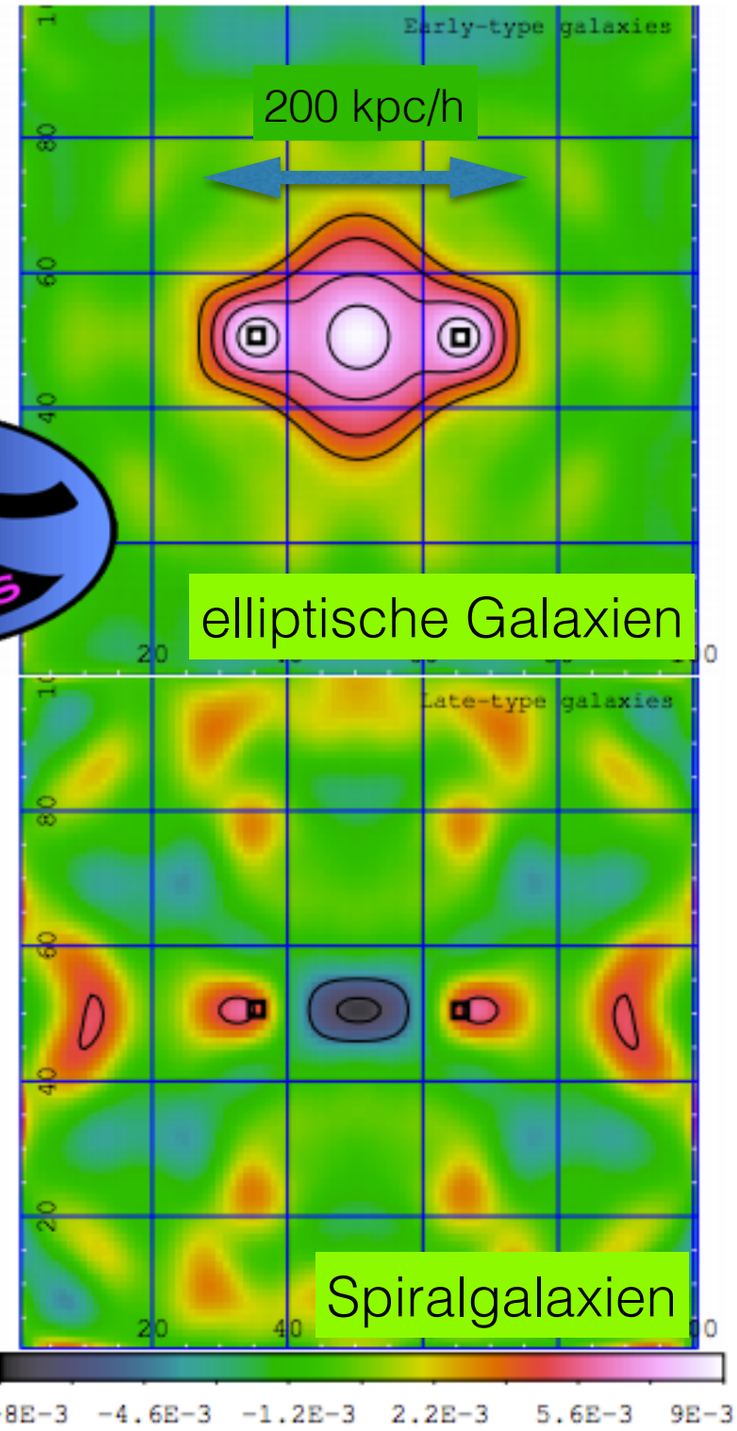
Tests von Galaxienmodellen



Galaxy-Galaxy-Galaxy Lensing

Saghiha, H., 2016, doctoral thesis



Simon, P. et al., 2013, MNRAS, 430, 2476

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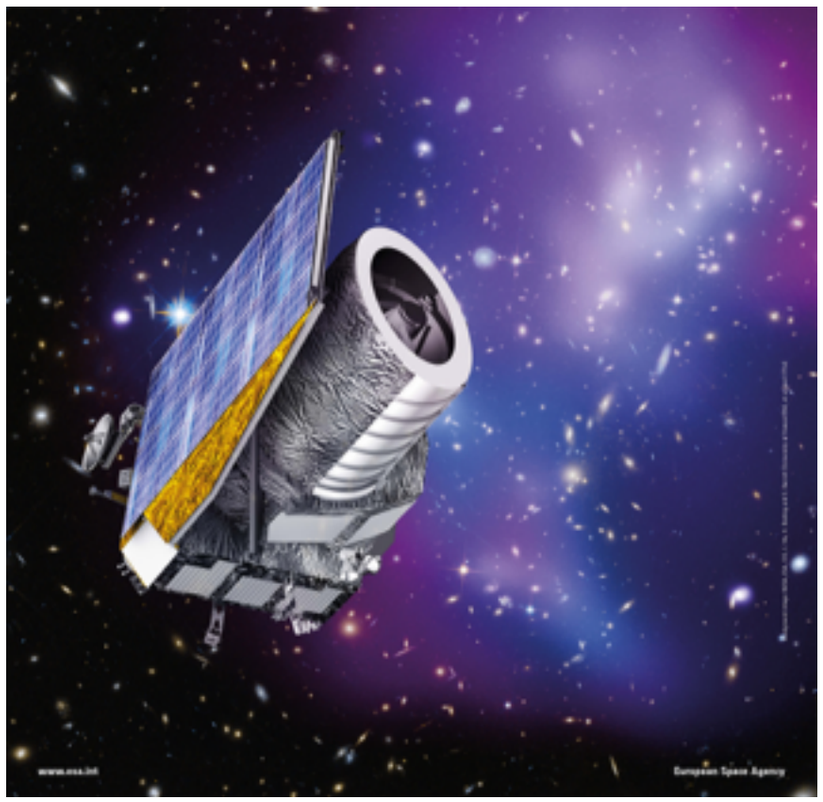
Missions-
vorbereitung



- 1.2m ESA-Weltraumteleskop für optische und nahinfrarote Aufnahmen

- Missionsdauer 2020 + 6 Jahre (L2)

- Konsortium mit ~1300 Wissenschaftlern

- 15.000 Quadratgrad Himmel mit 10 Mrd Galaxien; insgesamt 1 Mrd für Lensing

- ein Ziel: Erforschung der Natur der Dunklen Energie

Peter Schneider

Fragen oder Interesse an einem Thema
für eine Bachelorarbeit oder Masterarbeit?

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