

## PHYSIKALISCHES KOLLOQUIUM

### Wintersemester 2020/21

Das Kolloquium findet (soweit unten nicht anders angegeben)

**jeweils montags um 17:15 Uhr online via Zoom** statt.

(Der jeweilige Link wird noch zur Verfügung gestellt.).

**11.01.2021**

Prof. Dr. Bruno Leibundgut

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#### **The Hubble Constant or the Never Ending Story of the Expansion of the Universe**

##### **Abstract**

After the discovery of the cosmic expansion, the rate - the Hubble Constant ( $H_0$ ) - with which the universe grows has become one of the most important cosmological parameters. In the current models, it sets the absolute scale and age of the universe and hence is fundamental to our understanding of the cosmos. Its exact value has been debated from the start. Over the past three decades, the uncertainty of the measured value of  $H_0$  has been reduced by more than a factor of 10. Despite this significant improvement the discussion on  $H_0$  continues unabated. A discrepancy between local determinations of  $H_0$  and the ones based on cosmological models has emerged and is often referred to as a 'Hubble tension'. If the discrepancy persists then the cosmological model is either incomplete or wrong.

Für die Dozentinnen bzw. Dozenten der Fakultät

Prof. Dr. Hankiewicz, Prof Dr. Höfling, PD Dr. Meyer, Prof Dr. Sing und Hr. Frerichs