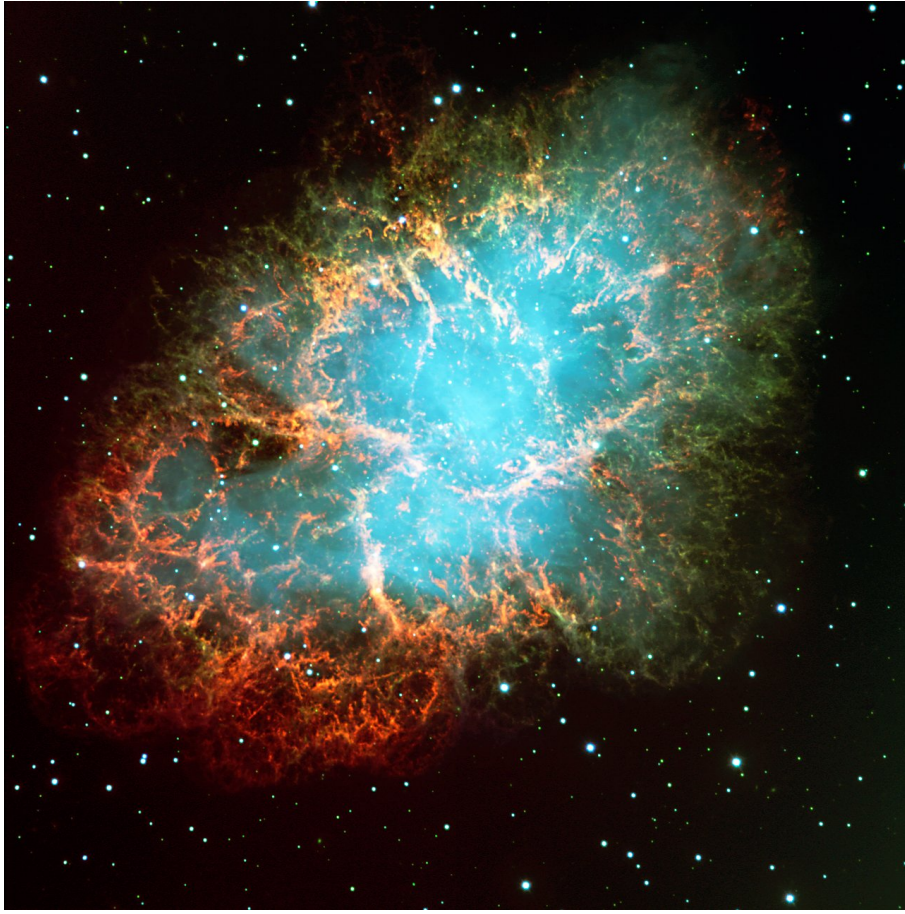
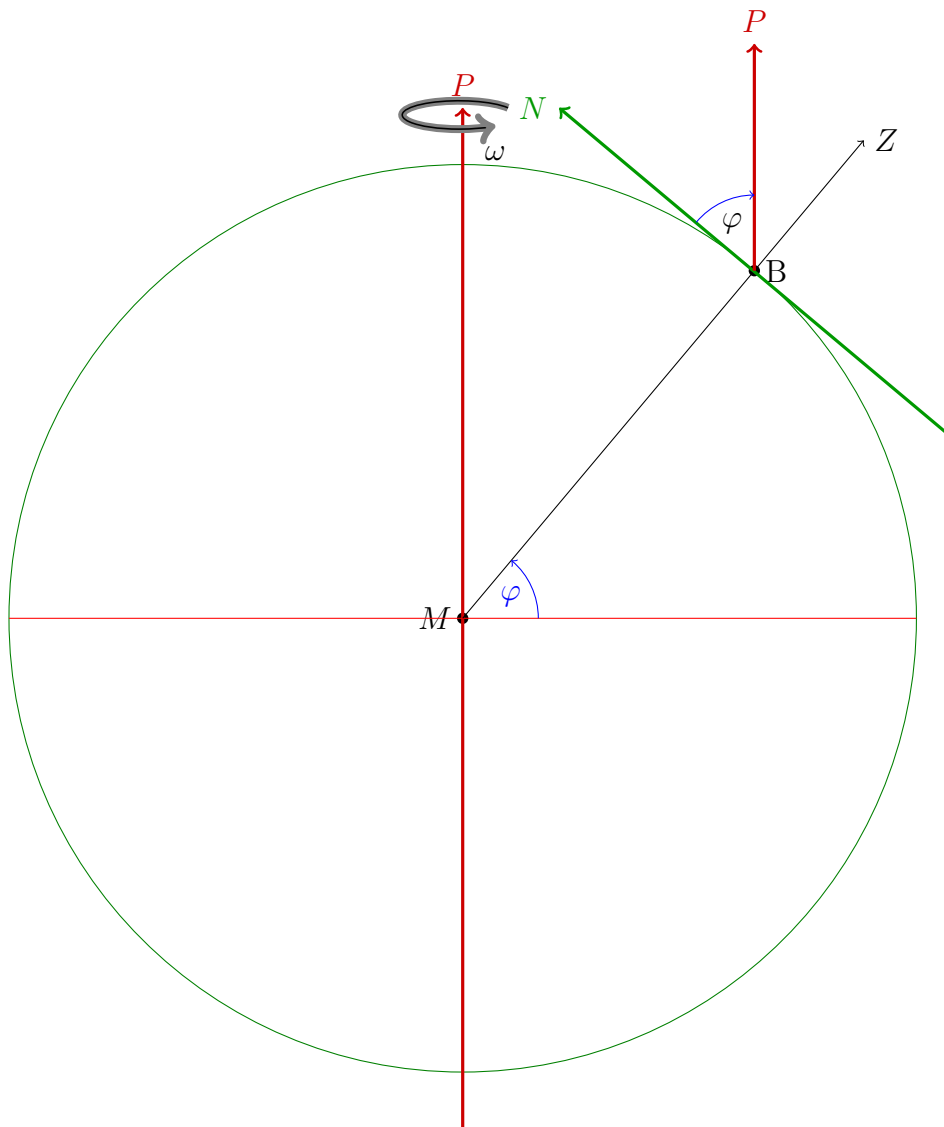
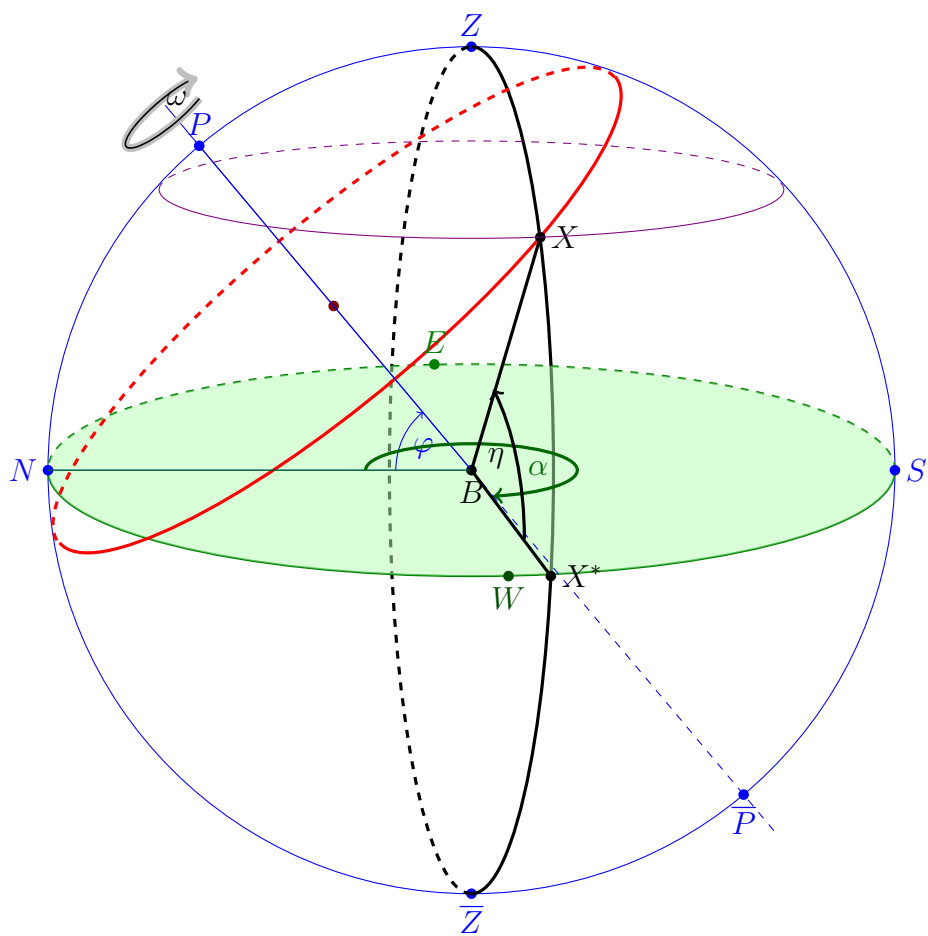


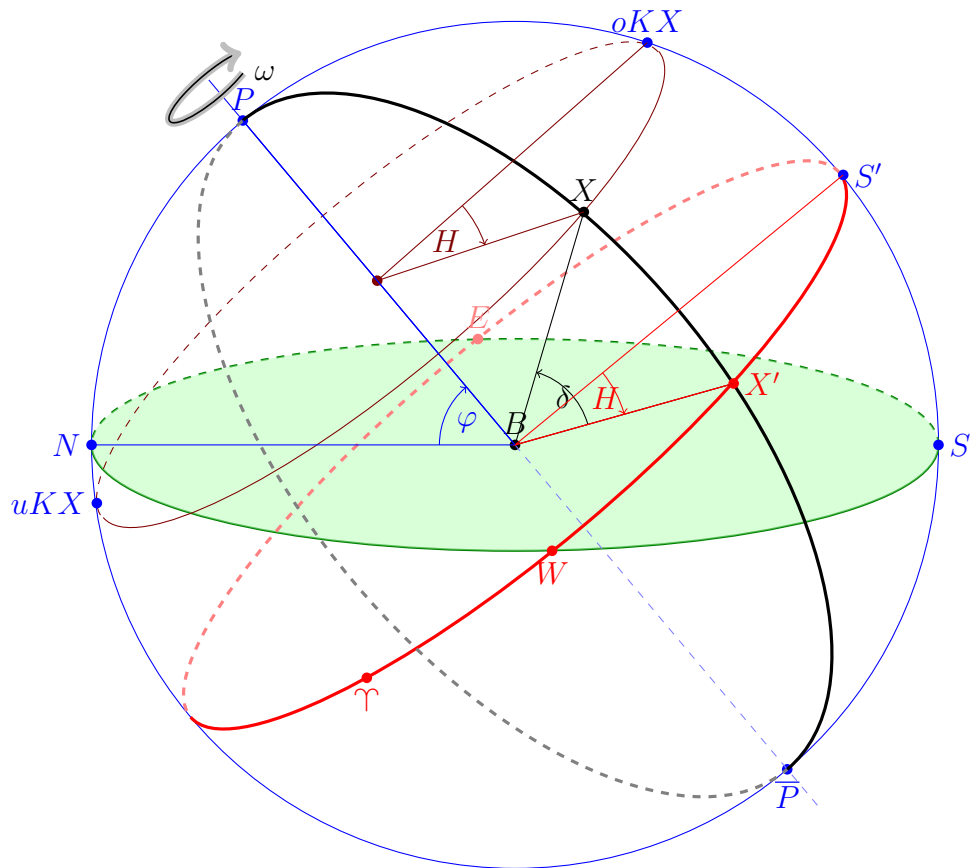


1 Horizont-System

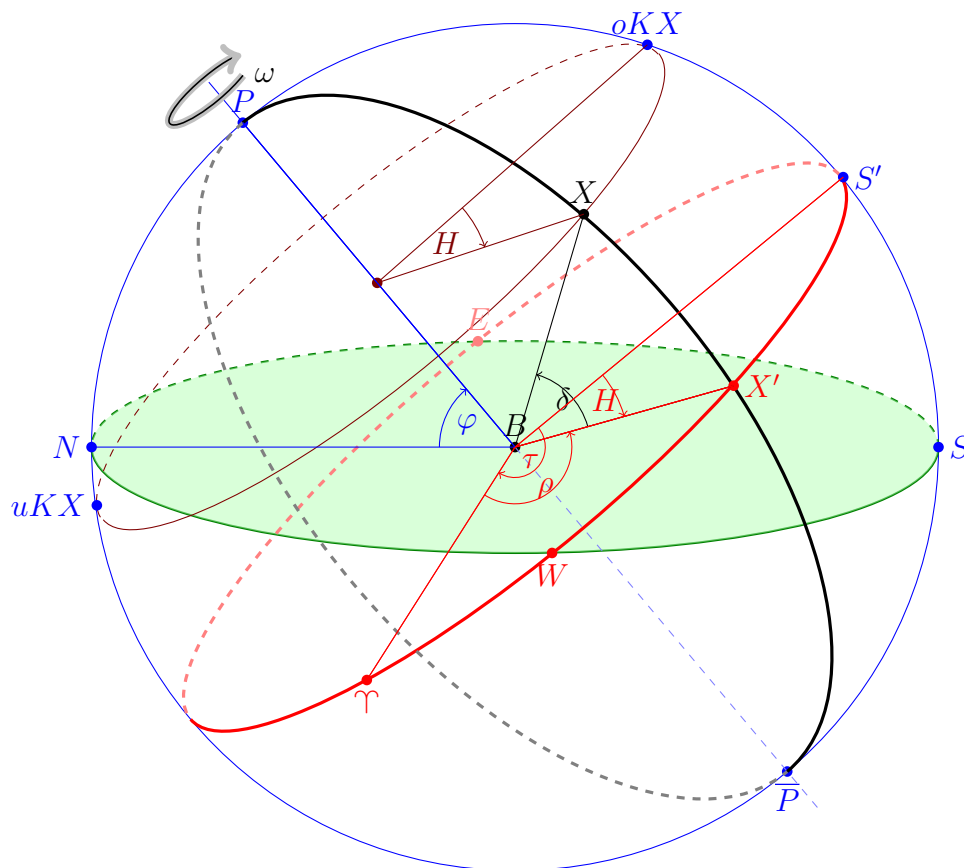




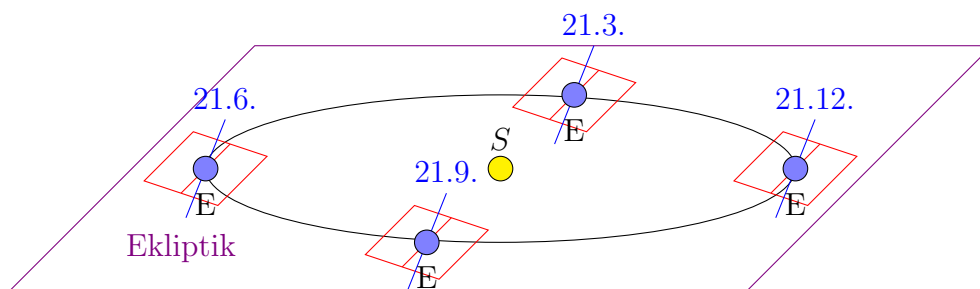
2 Äquatorial-System

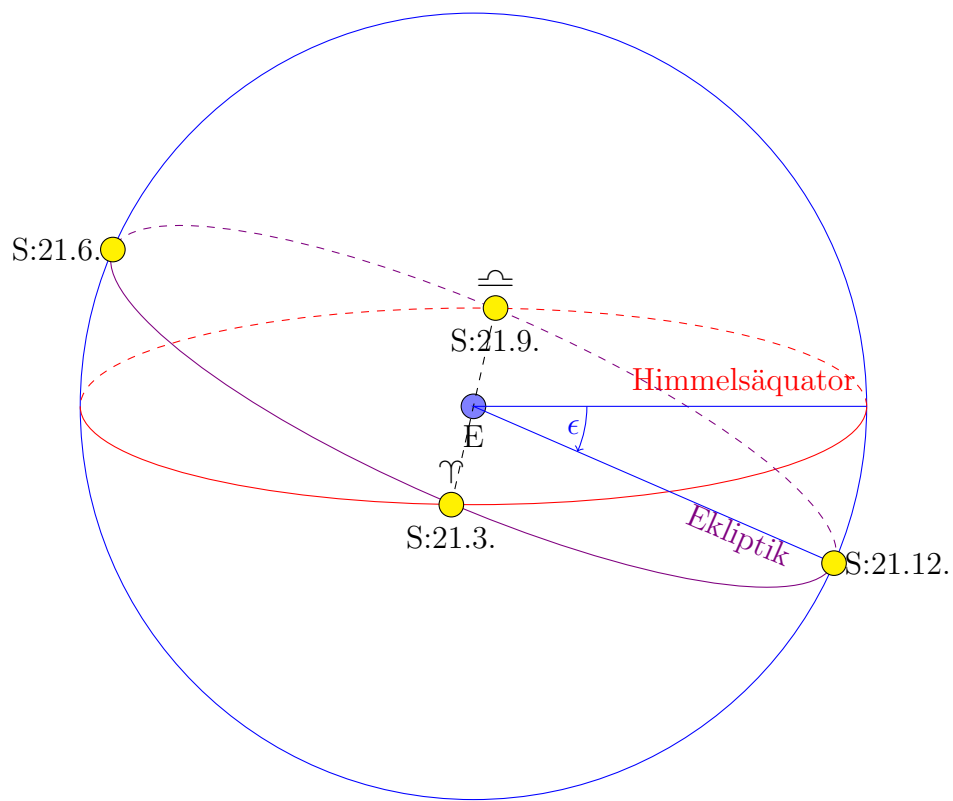


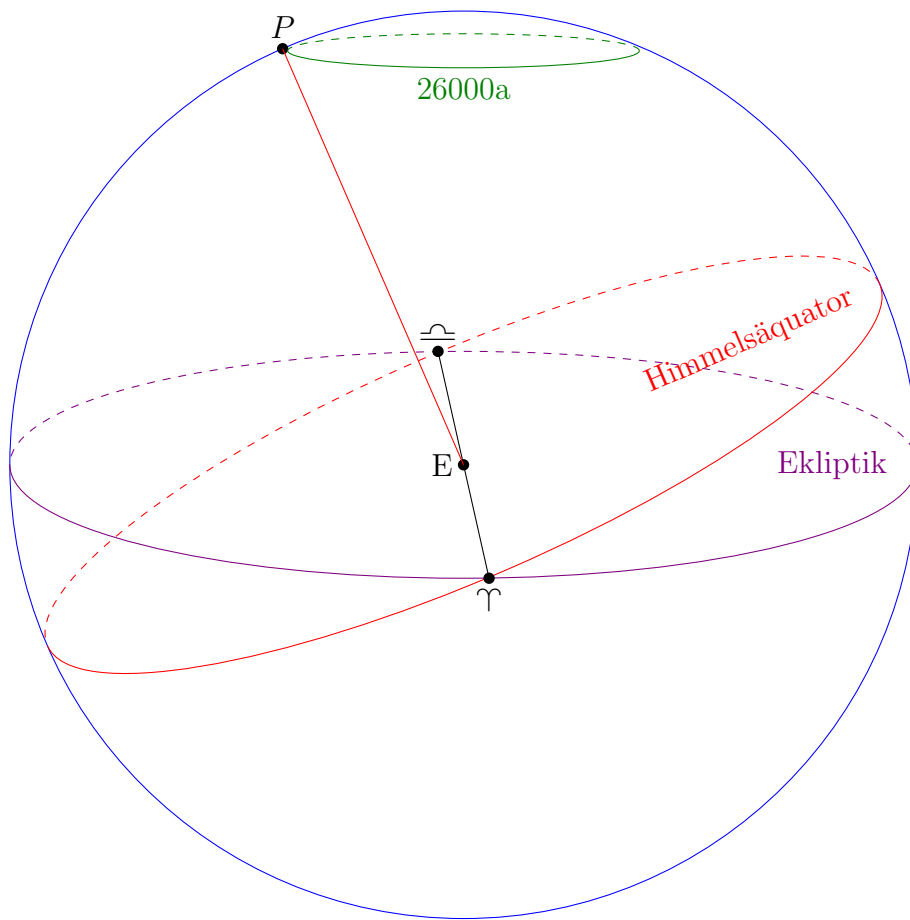
3 Das astronomische System



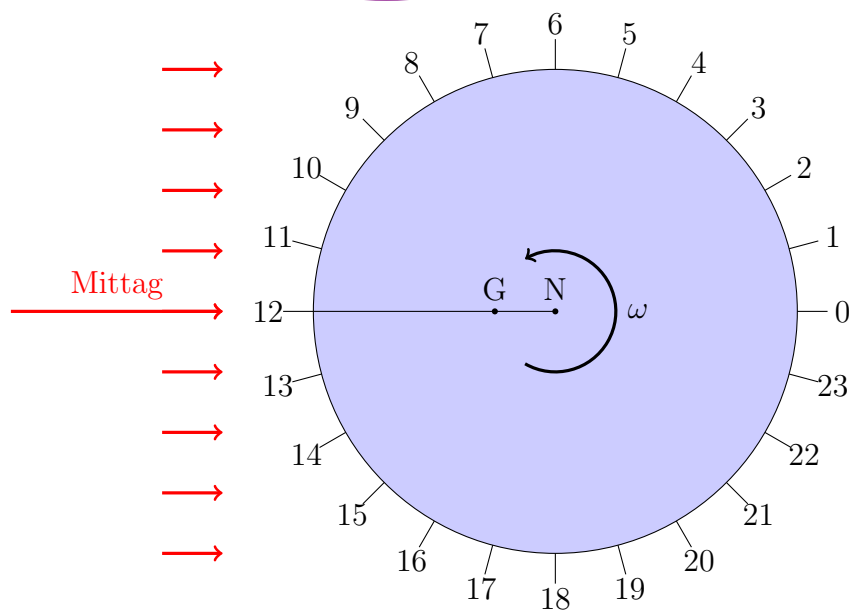
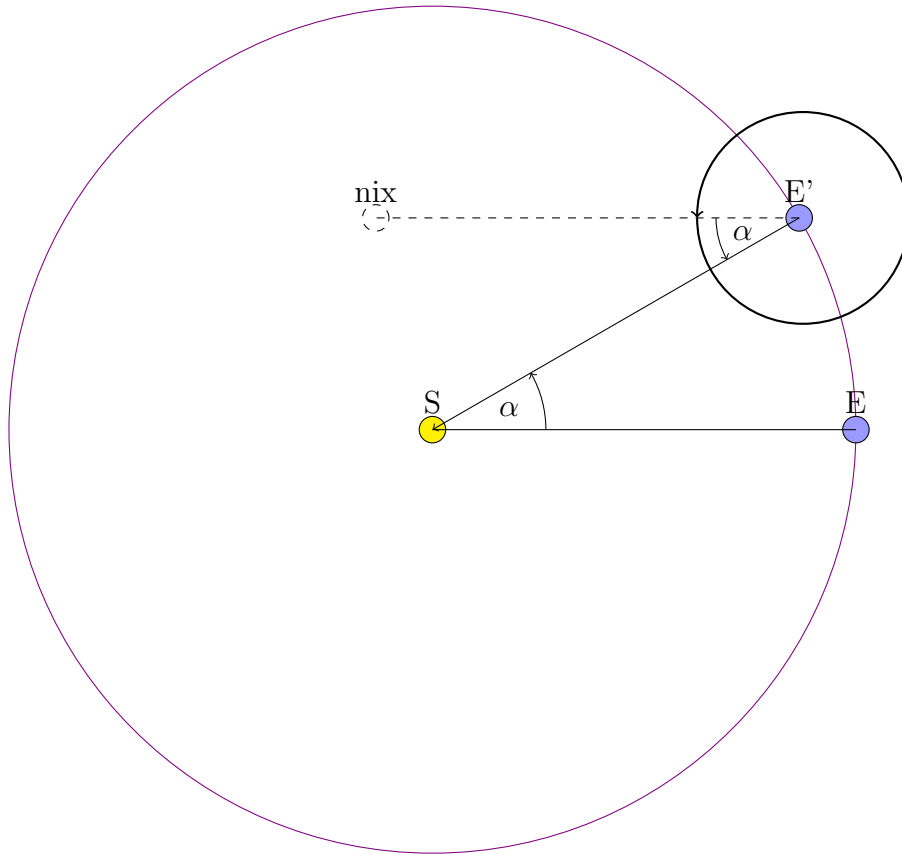
4 Die jährliche Drehung



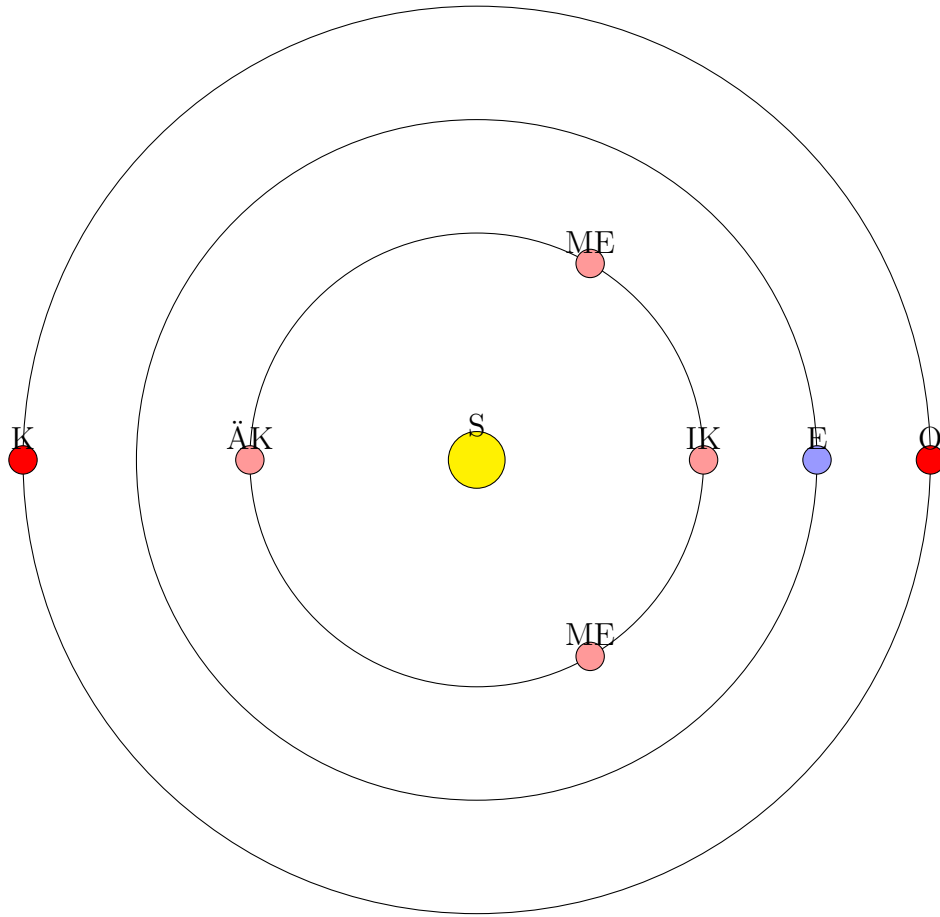




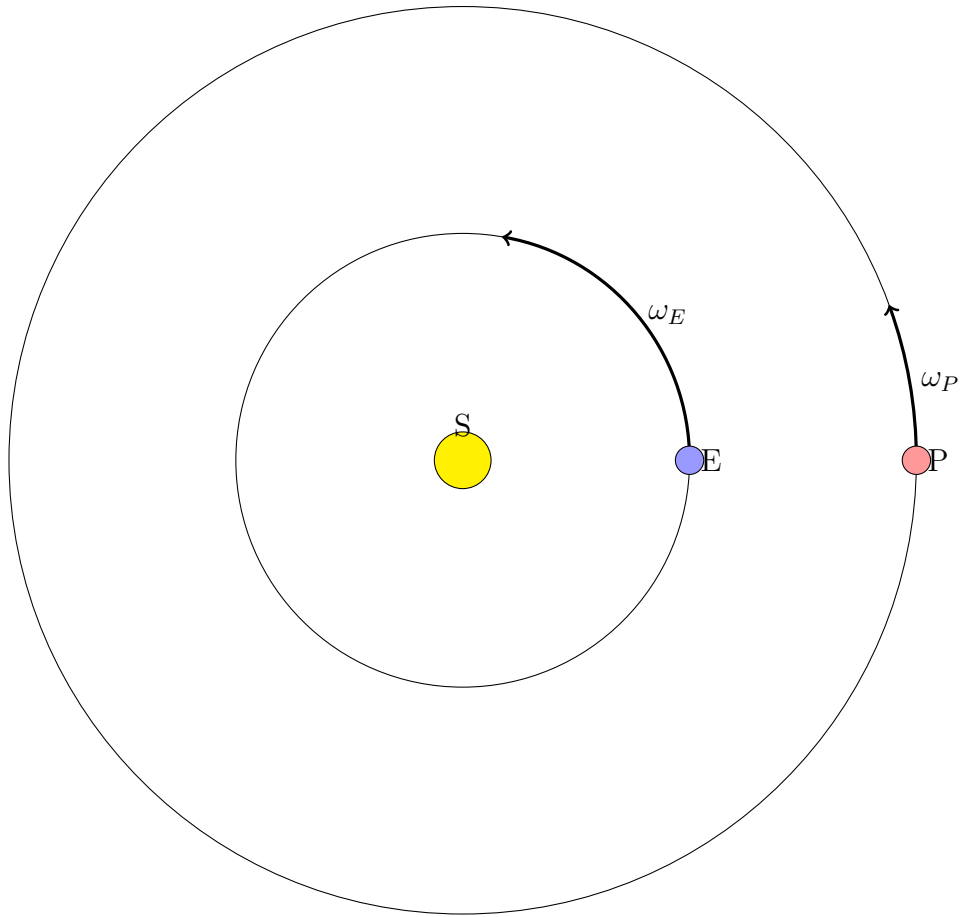
5 Die Zeitmessung



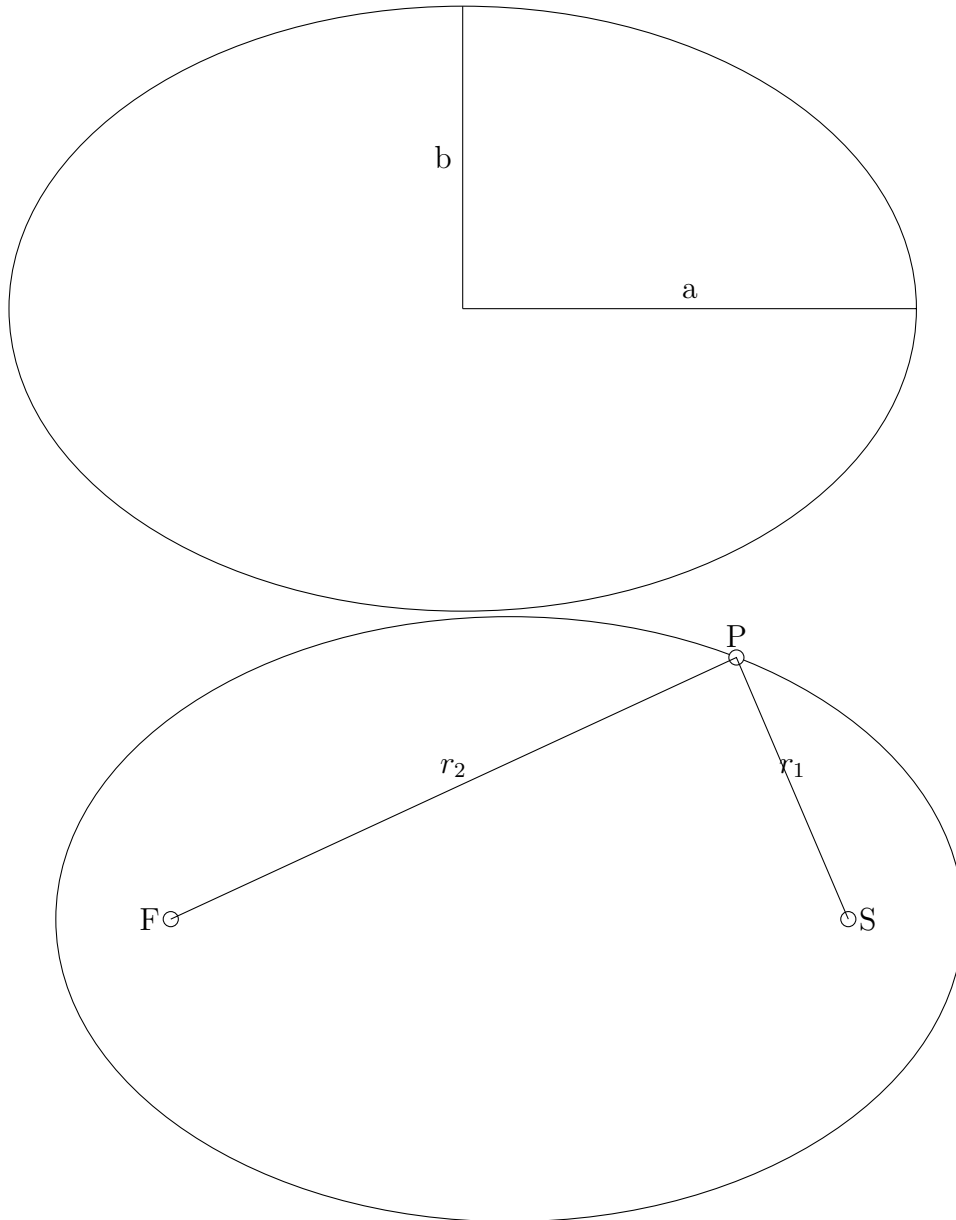
6 Planetenstellungen

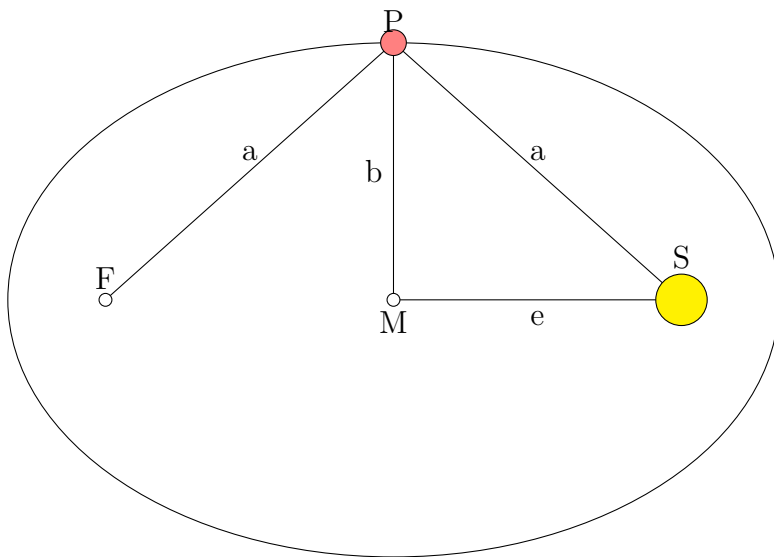
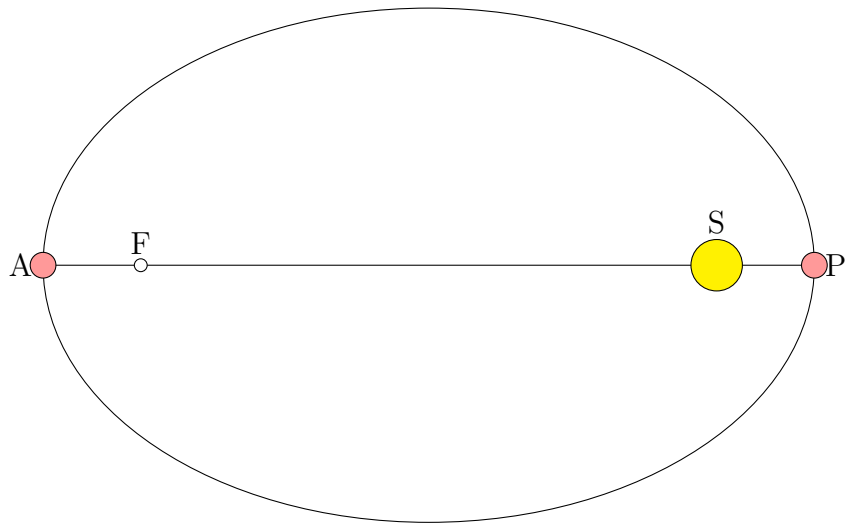


7 Periodizität der Planeten

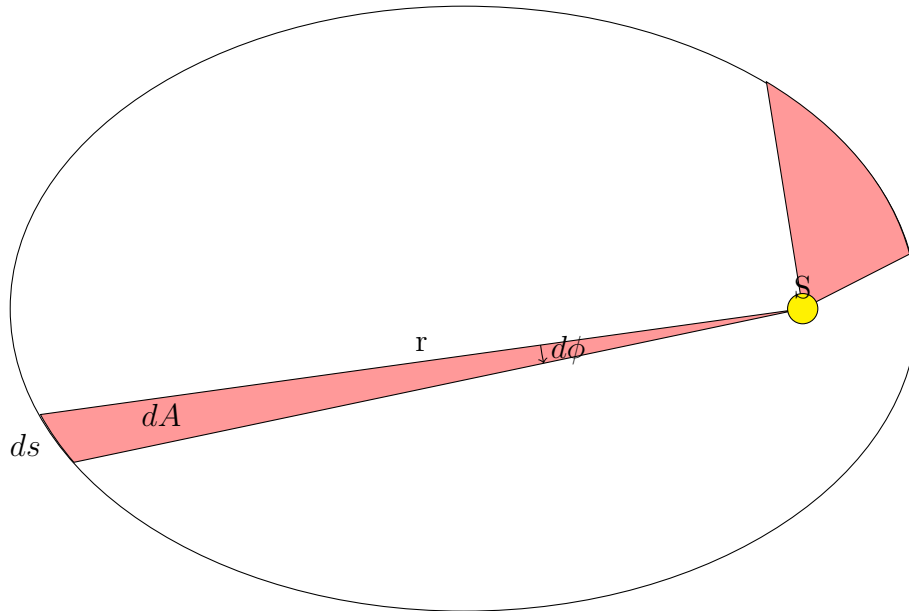


8 Das erste keplersche Gesetz

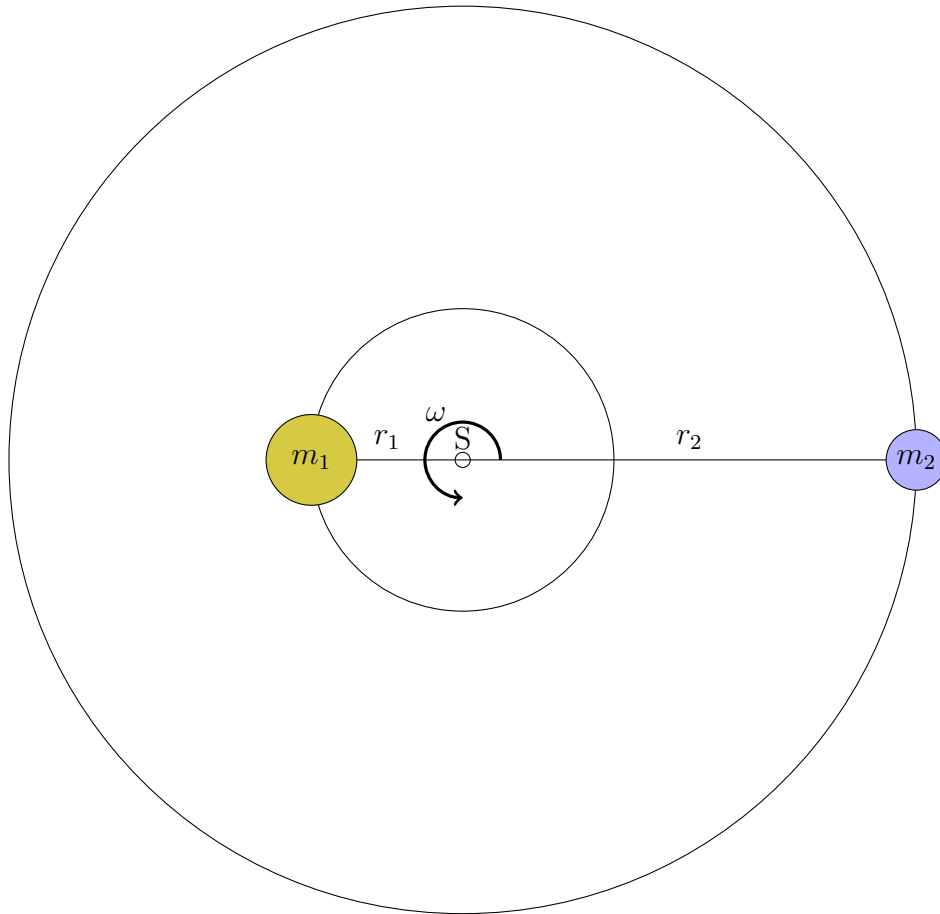




9 Das zweite keplersche Gesetz



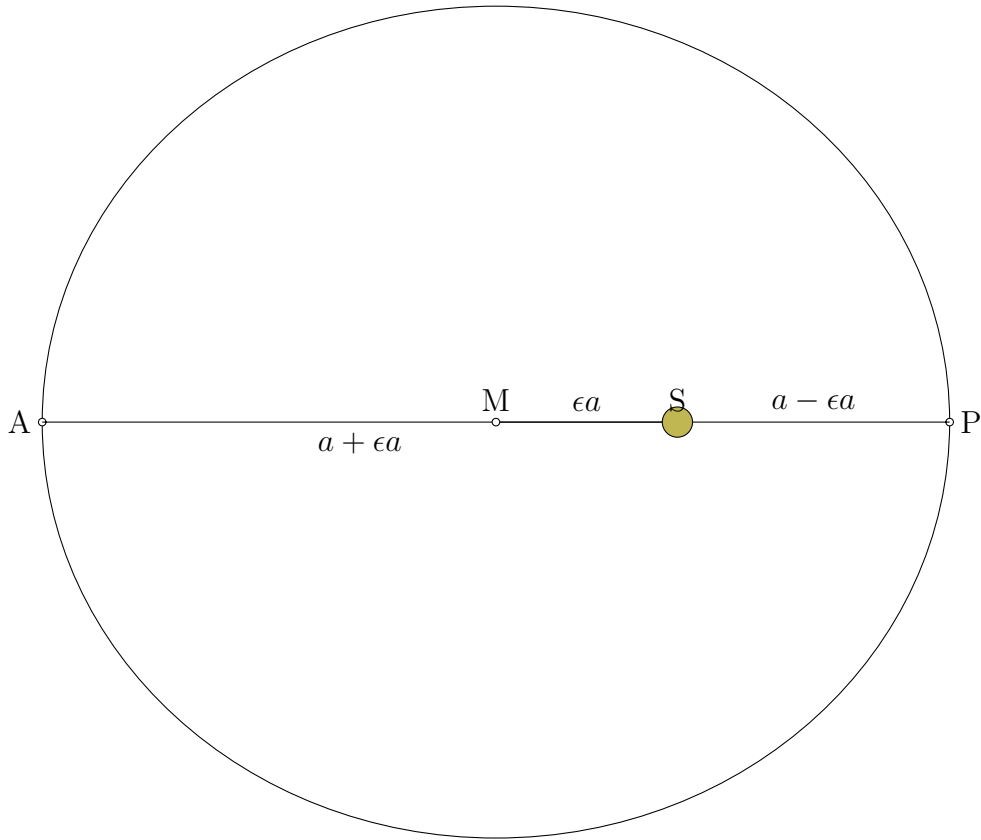
10 Das dritte keplersche Gesetz



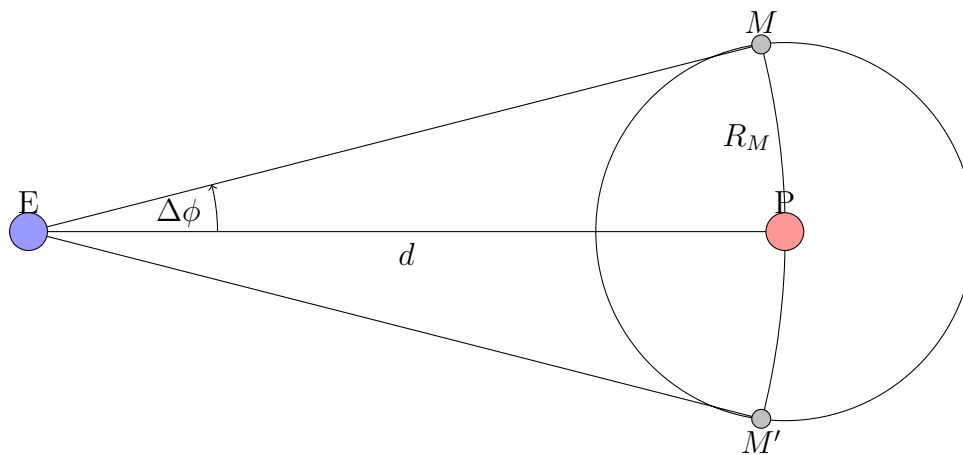
11 Die Energie im Gravitationsfeld

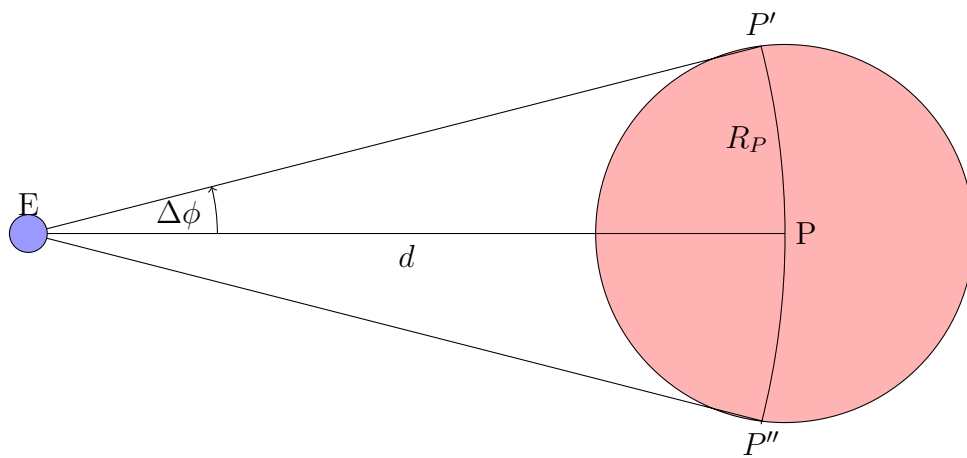


12 Die Bahngeschwindigkeit

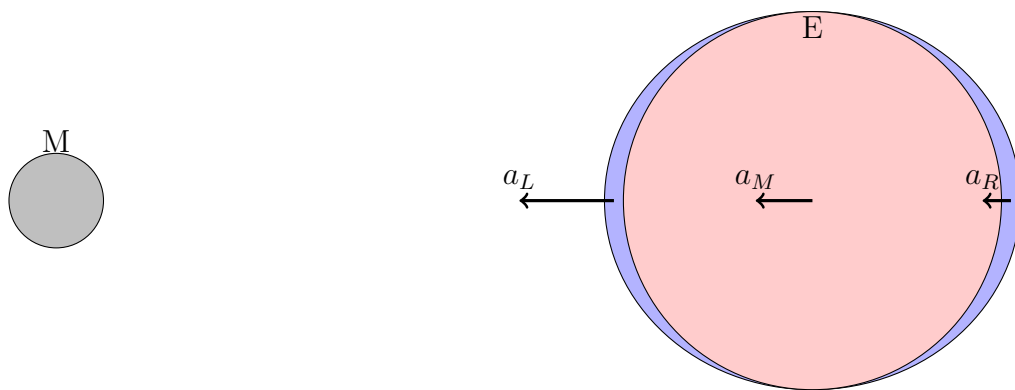


13 Kochrezepte

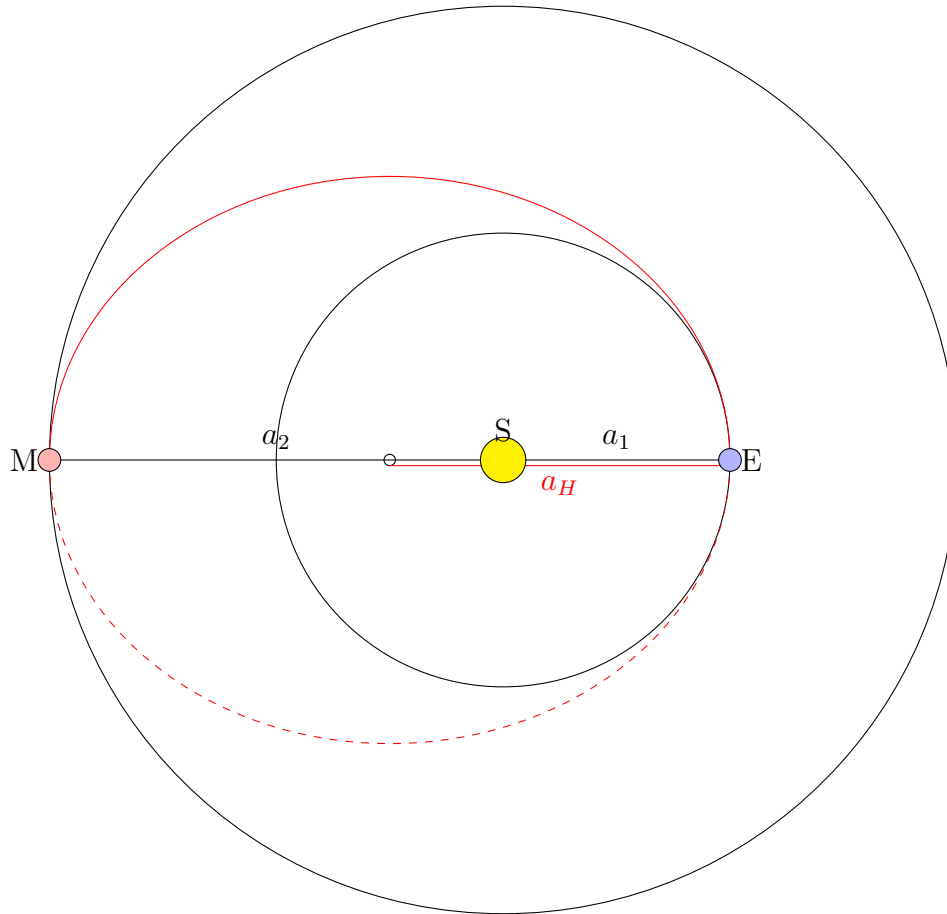




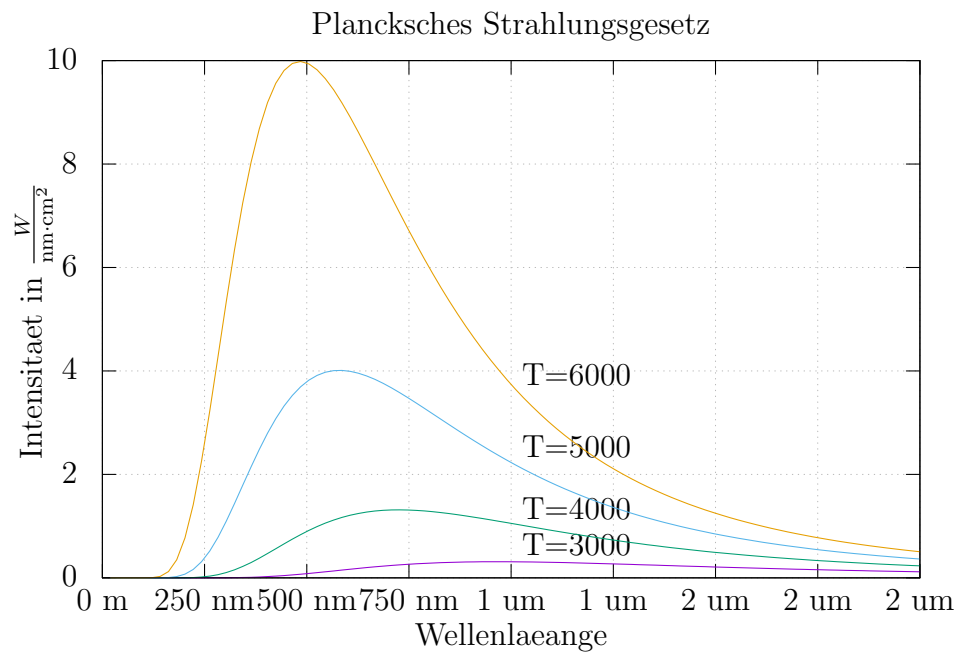
14 Die Gezeiten



15 Hohmann-Bahnen



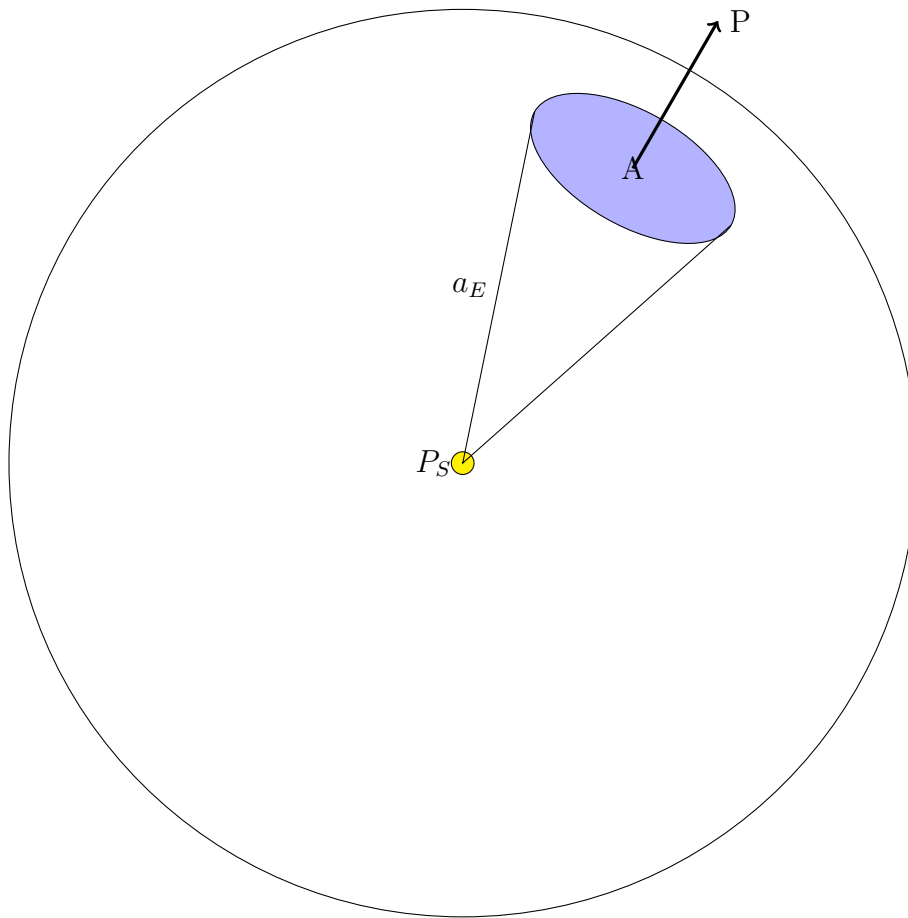
16 Strahlungsgesetz

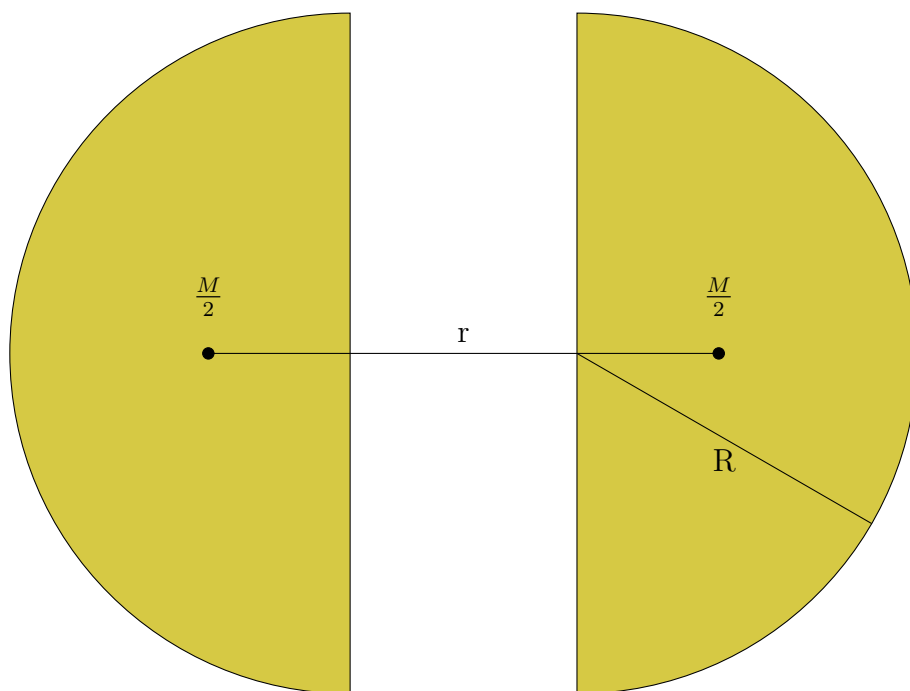


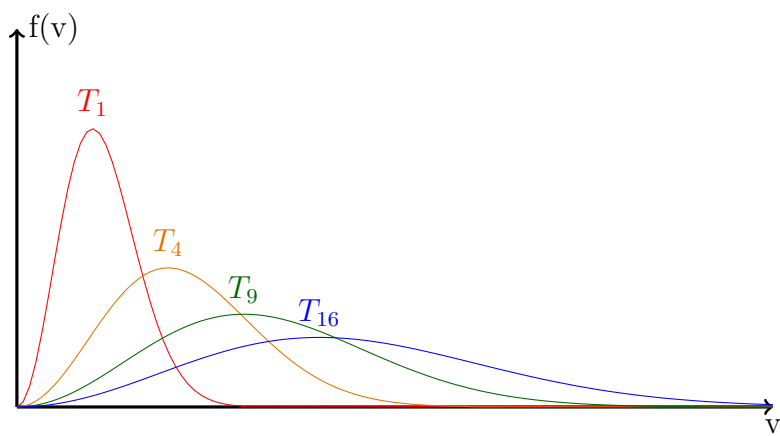
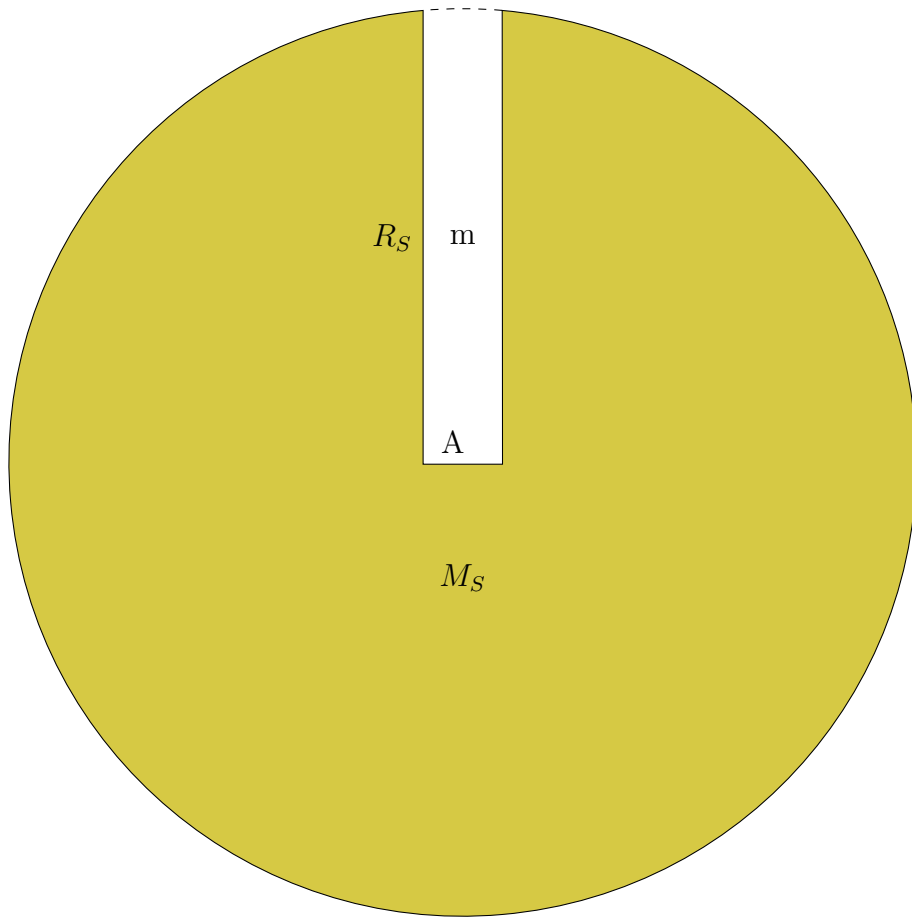
17 Temperatur der Planeten

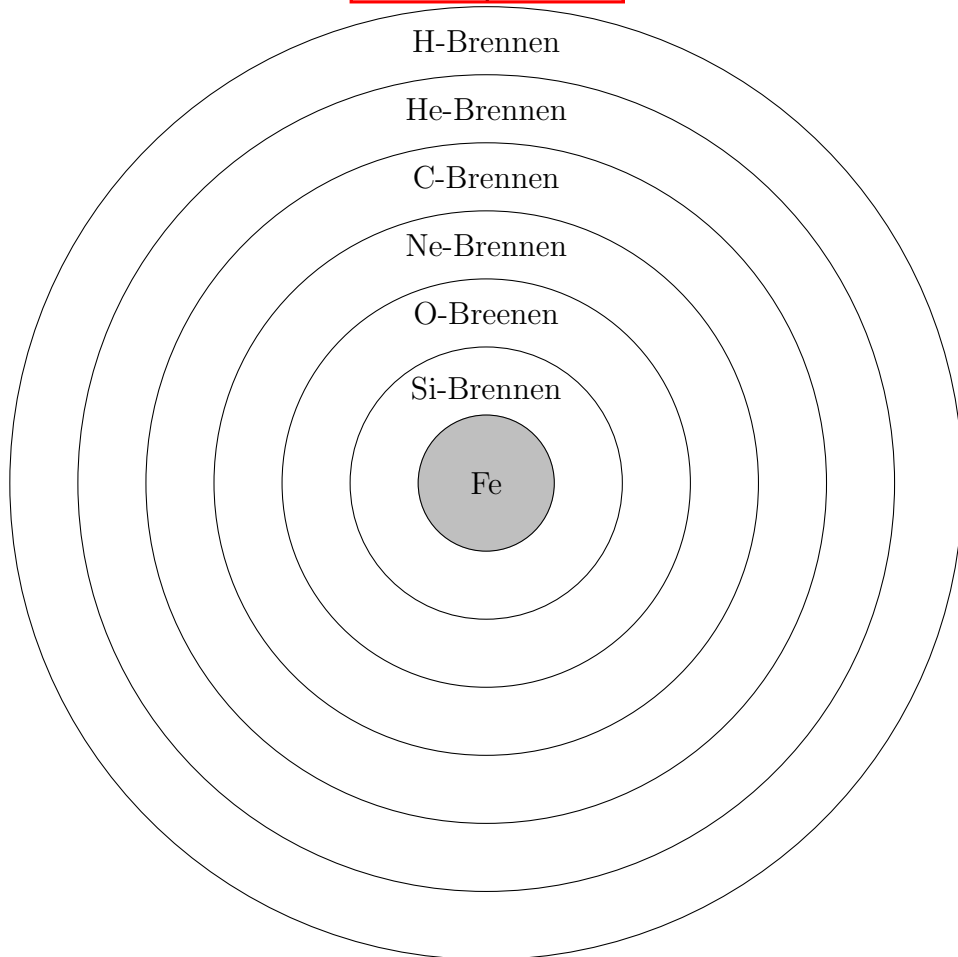
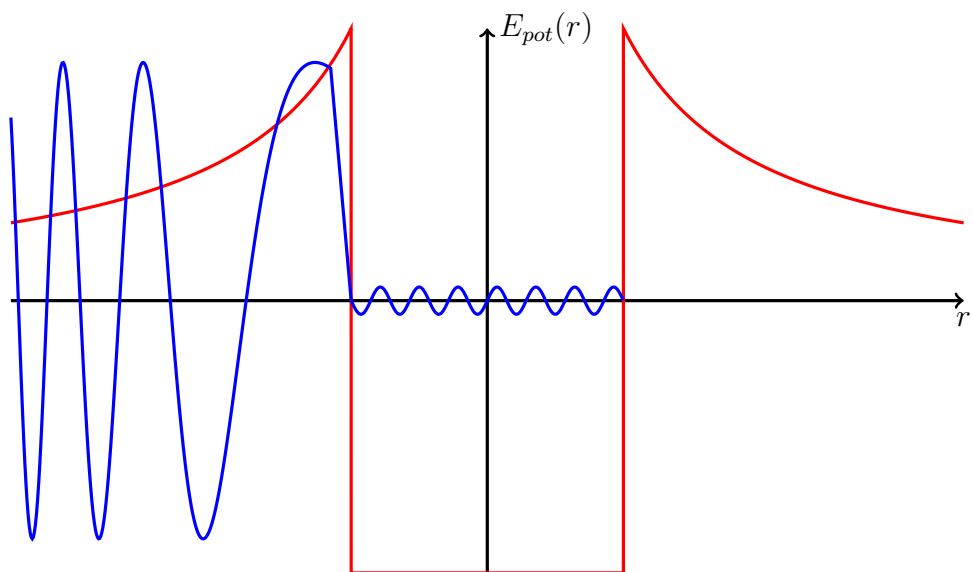
18 Das allgemeine Gasgesetz

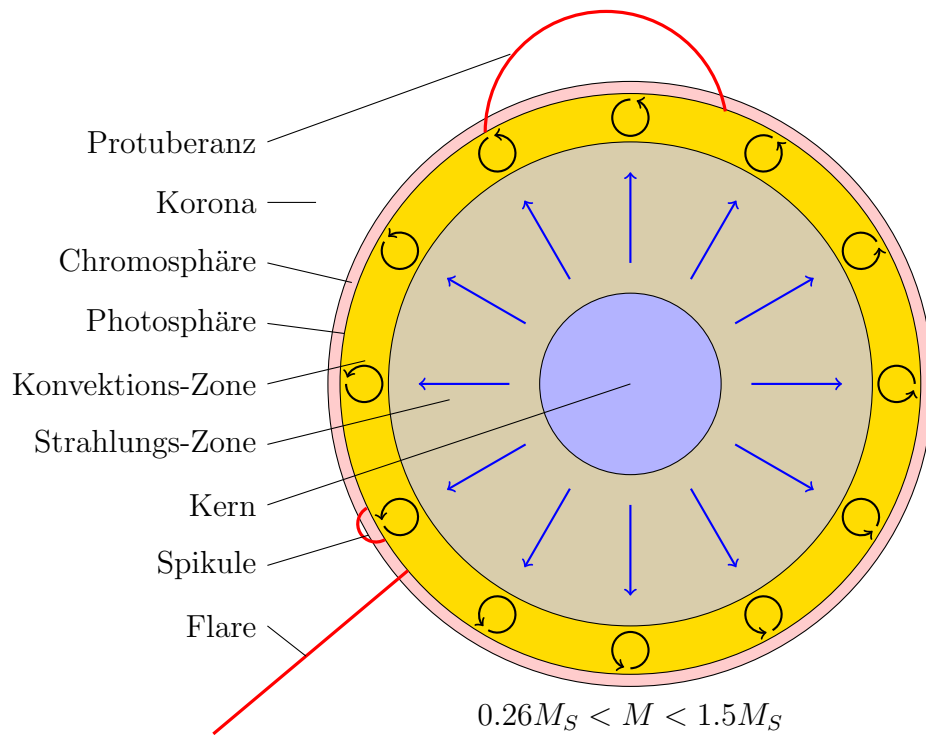
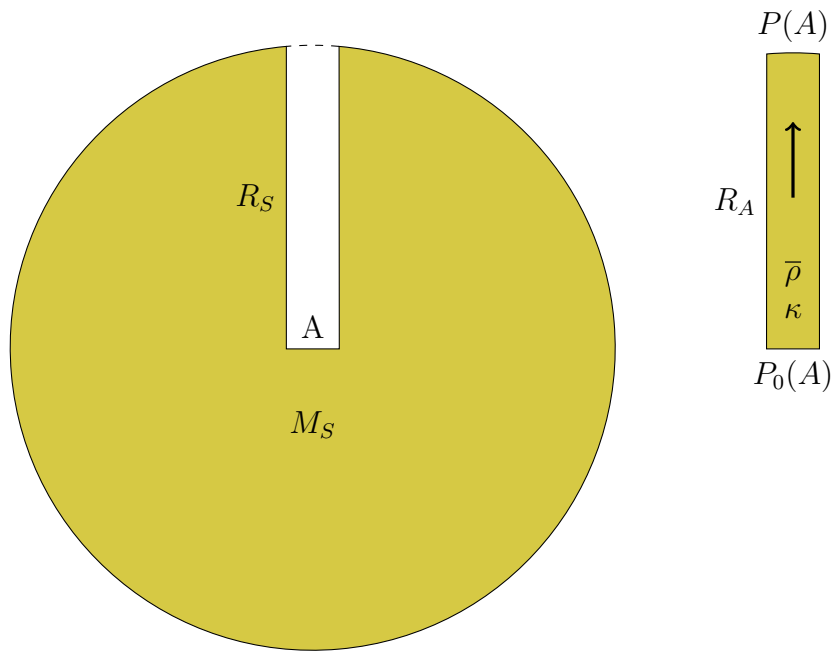
19 Die Physik der Sonne

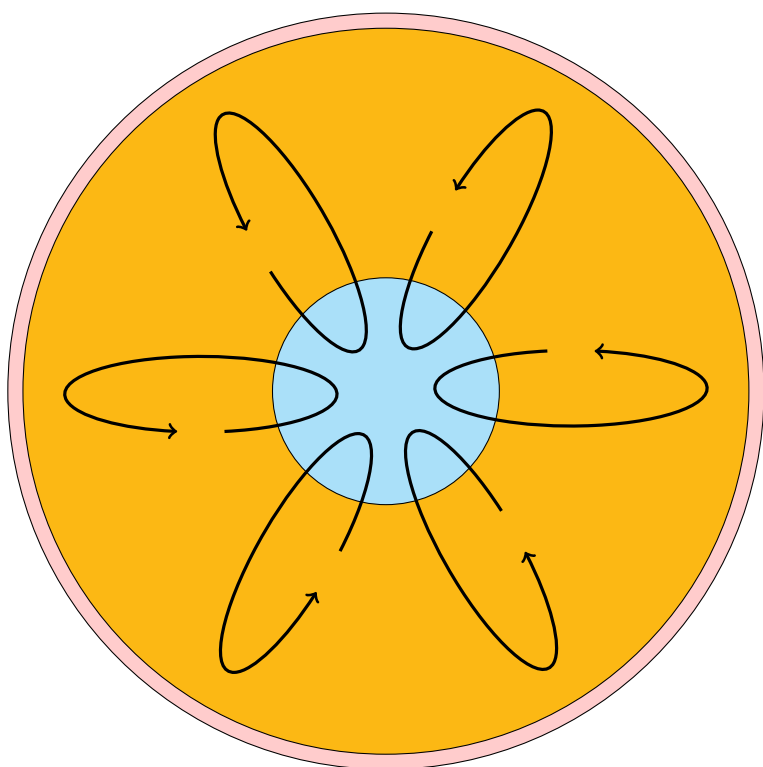




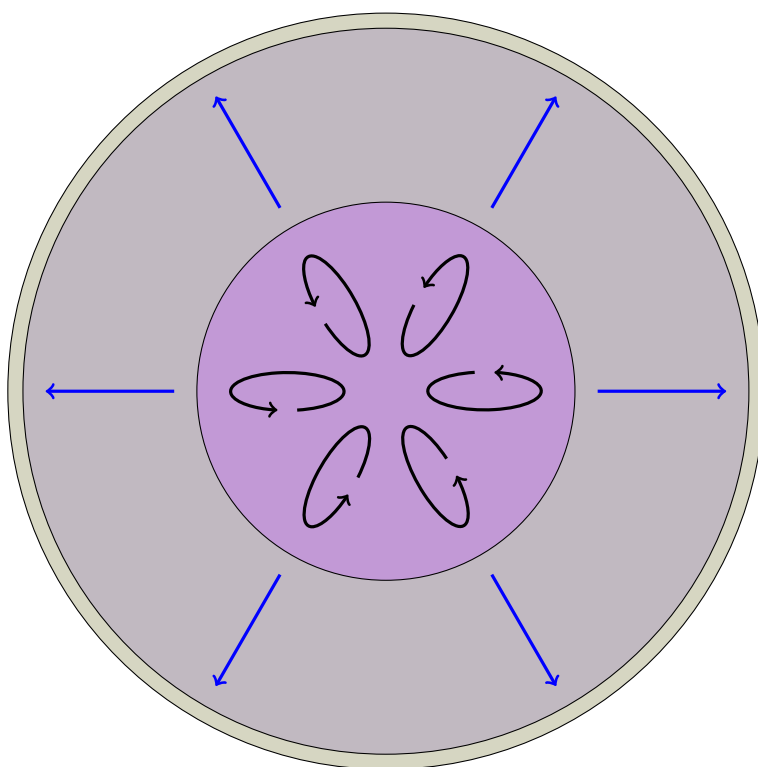




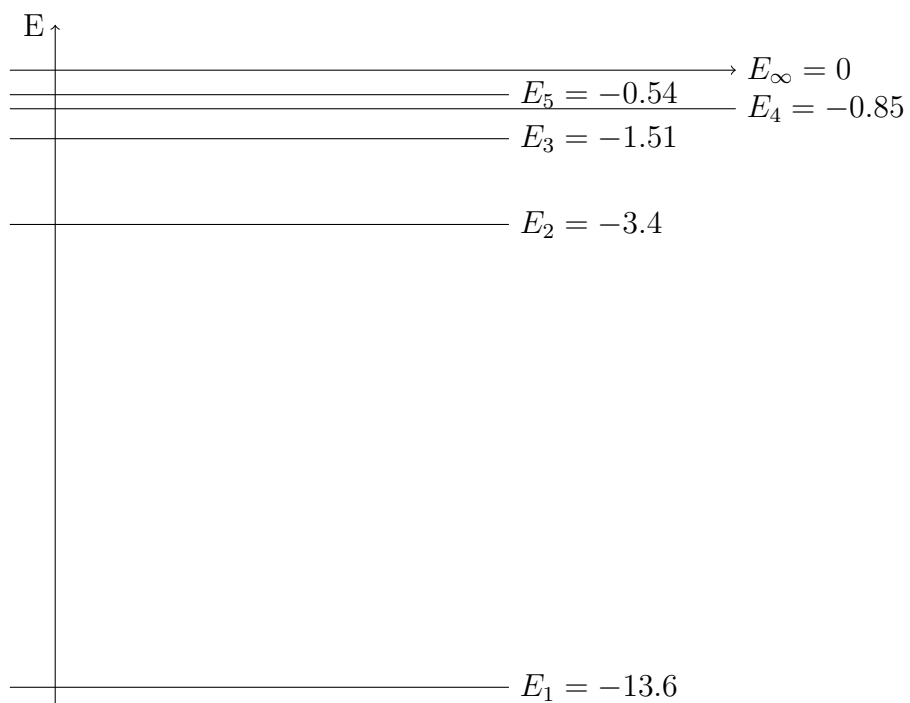


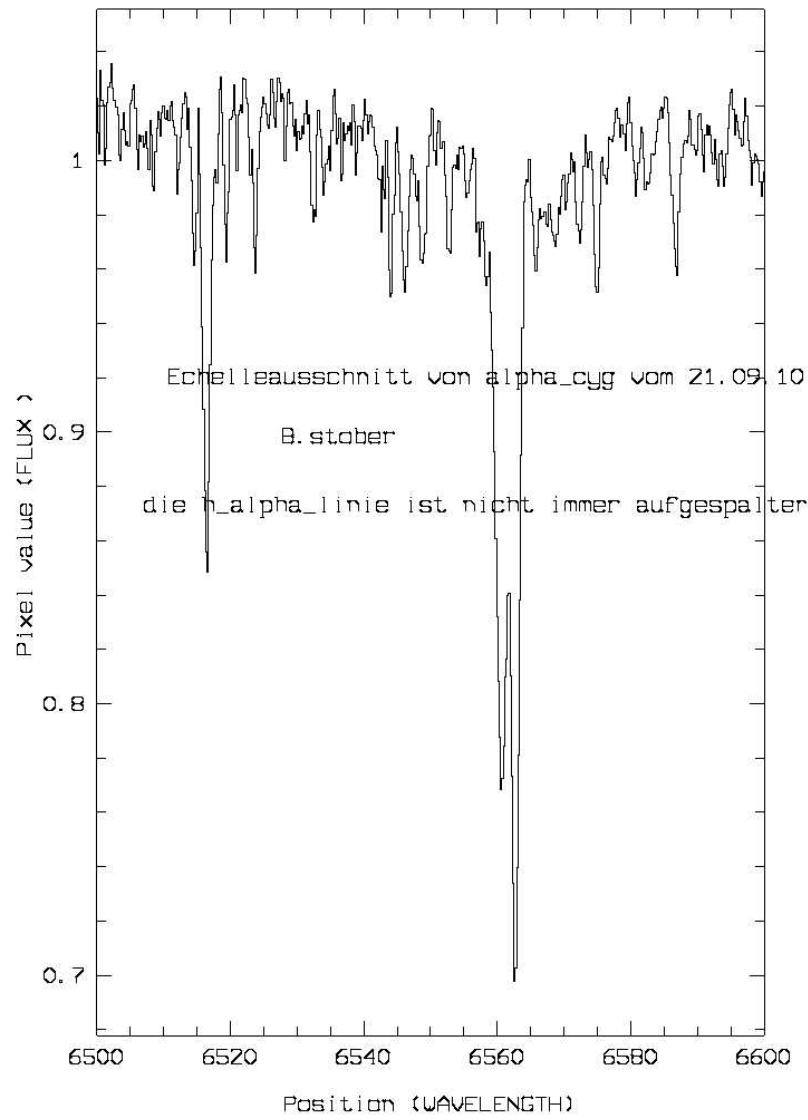


$$M < 0.26M_S$$

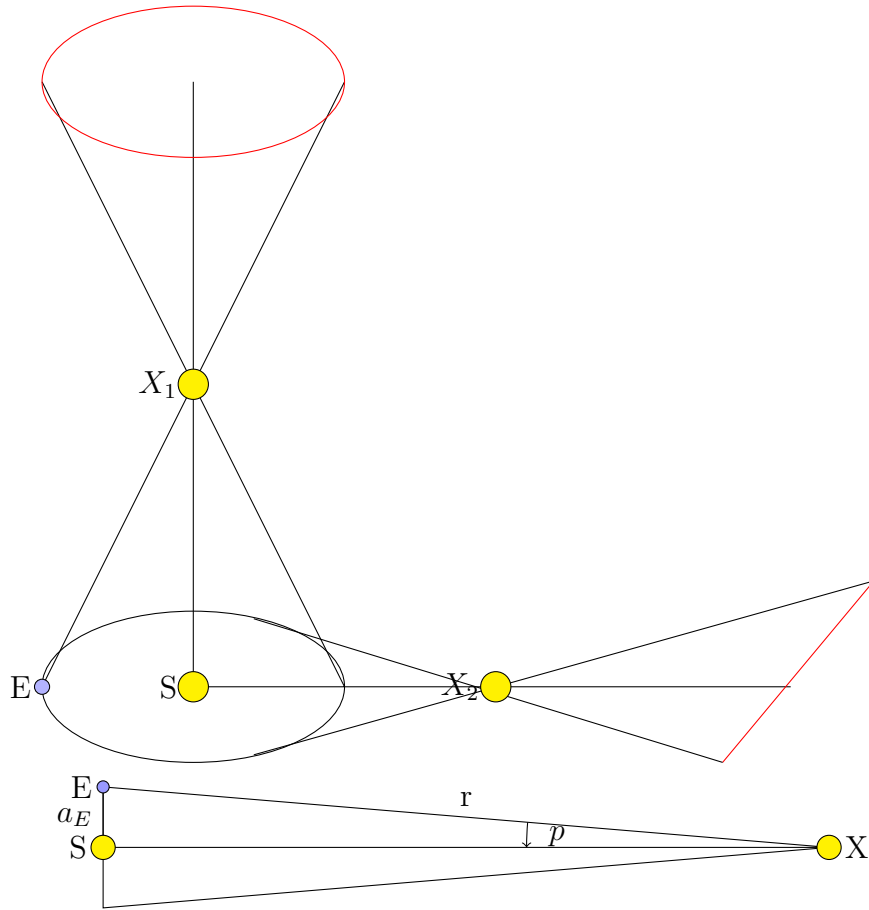


$$M > 1.5M_S$$





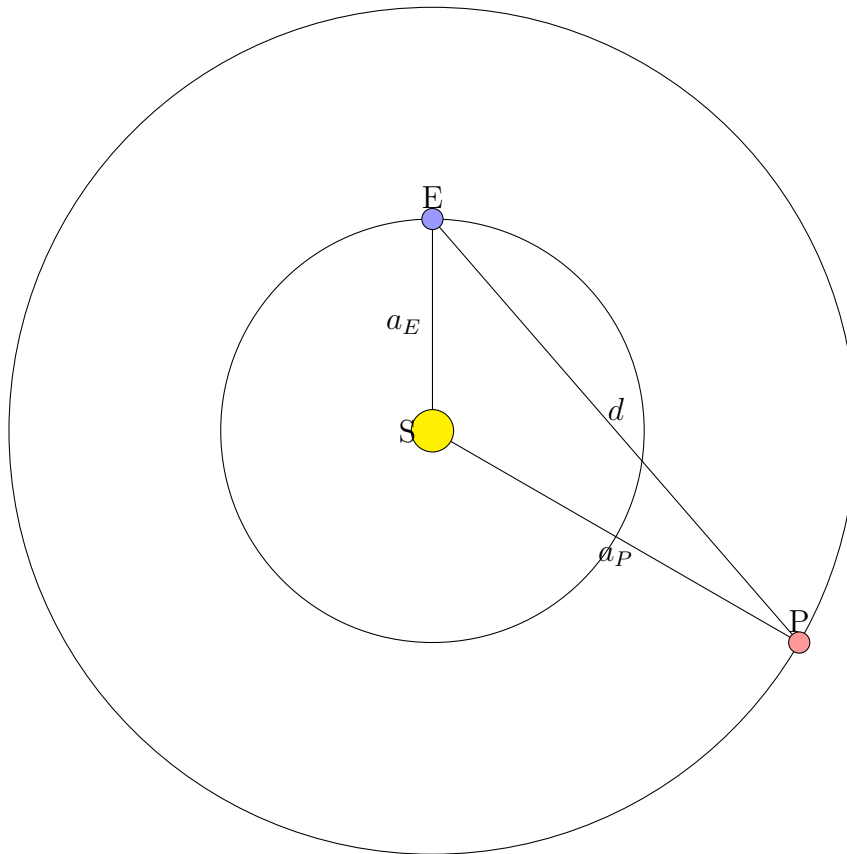
20 Die Sternparallaxe



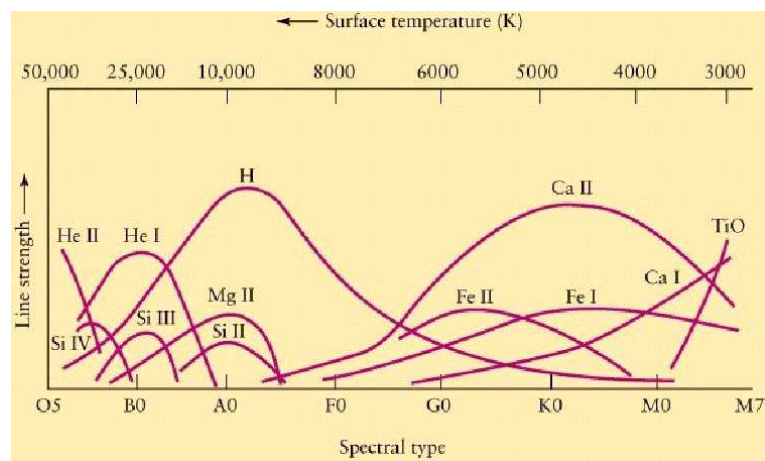
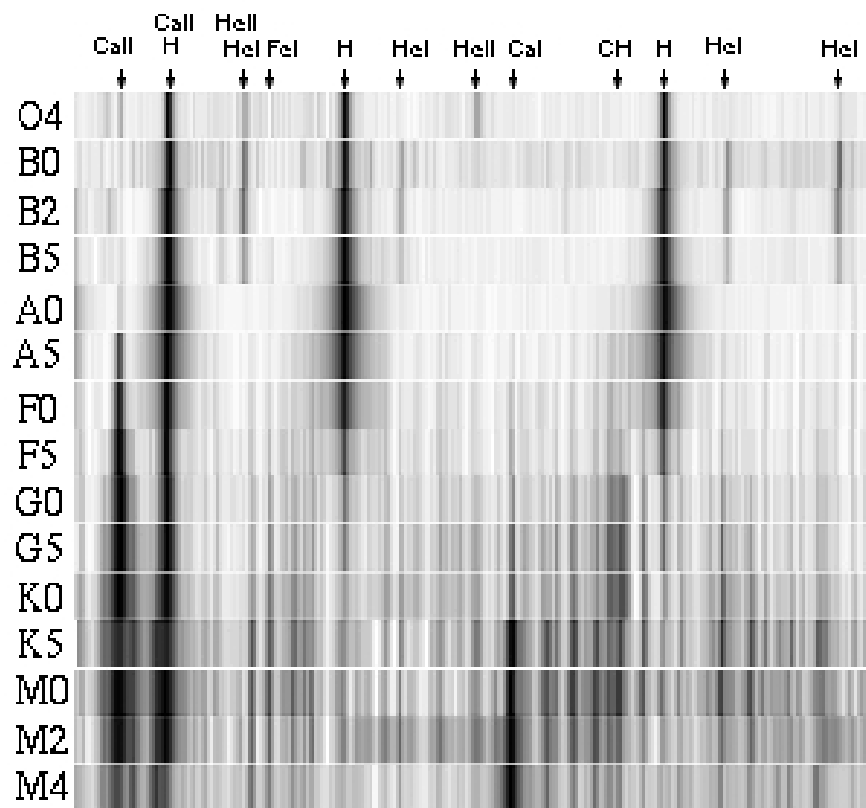
21 Scheinbare Sternmagnituden

22 Die absoluten Magnituden

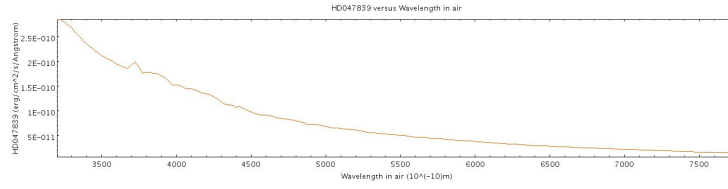
23 Die Magnitude reflektierender Körper



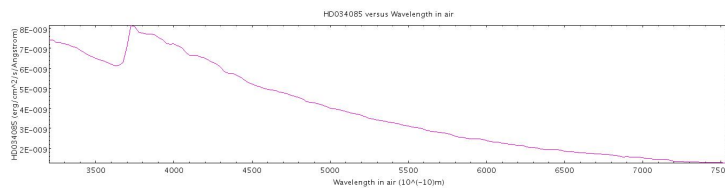
24 Spektralklassen



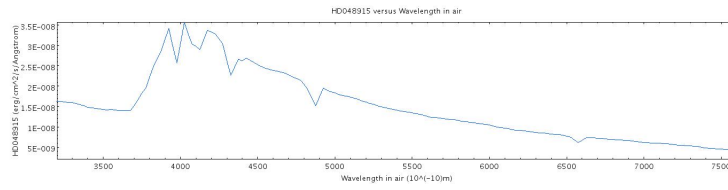
24.1 O-Sterne : S Mon O7 V



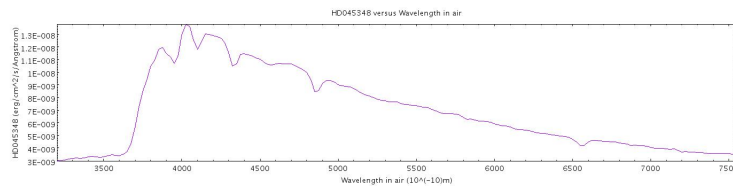
24.2 B-Sterne : Rigel = β Ori B8 Ia



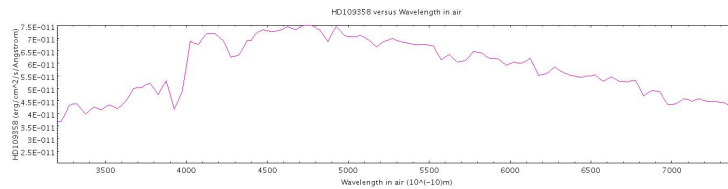
24.3 A-Sterne : Sirius = α CMa A1 Vm



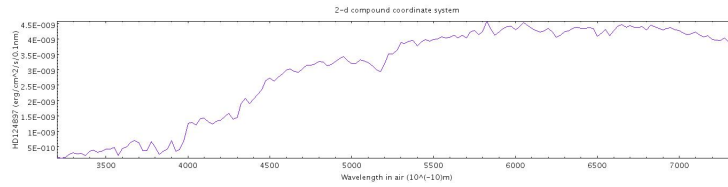
24.4 F-Sterne : Canopus = α Car F0 Ib



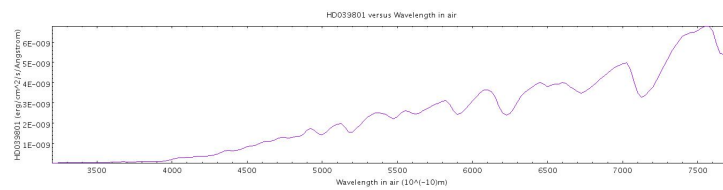
24.5 G-Stern : Asterion = β CVn G0 V



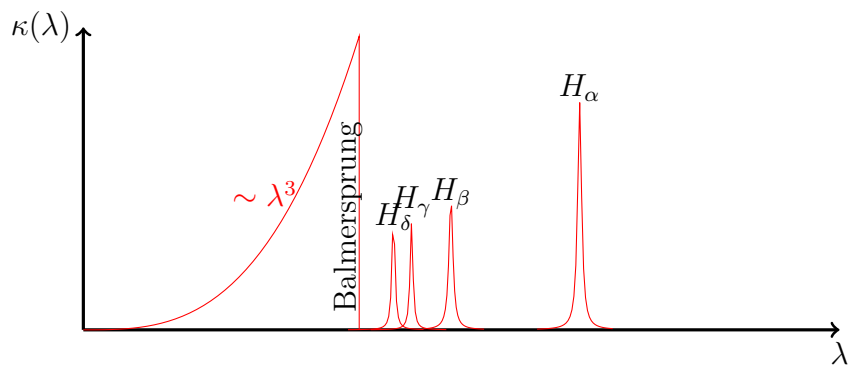
24.6 K-Stern : Arktur = α Boo K2 IIIp



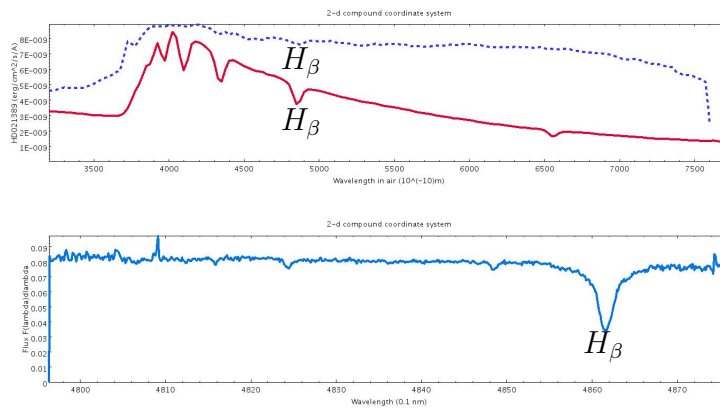
24.7 M-Stern : Beteiguze = α Ori M1 Iab



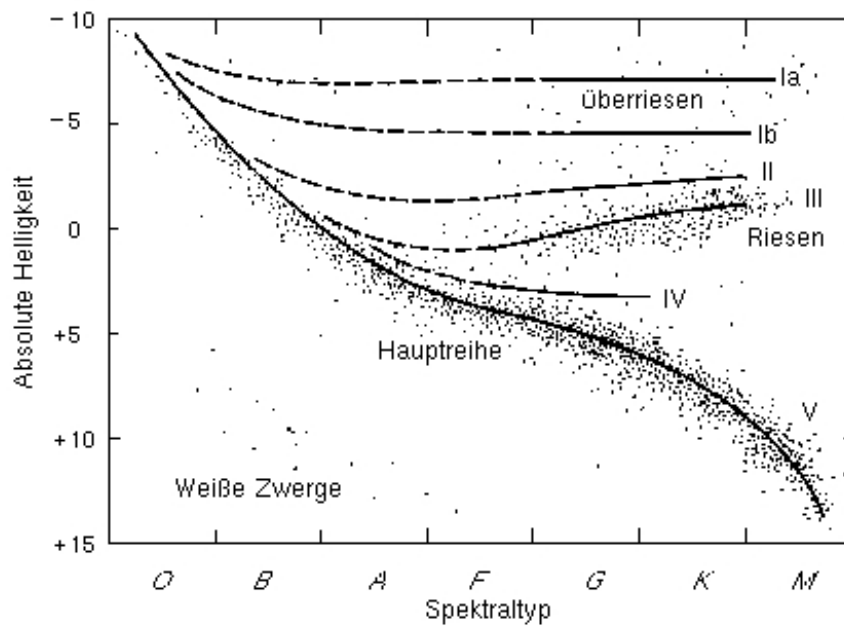
24.8 Der Balmersprung

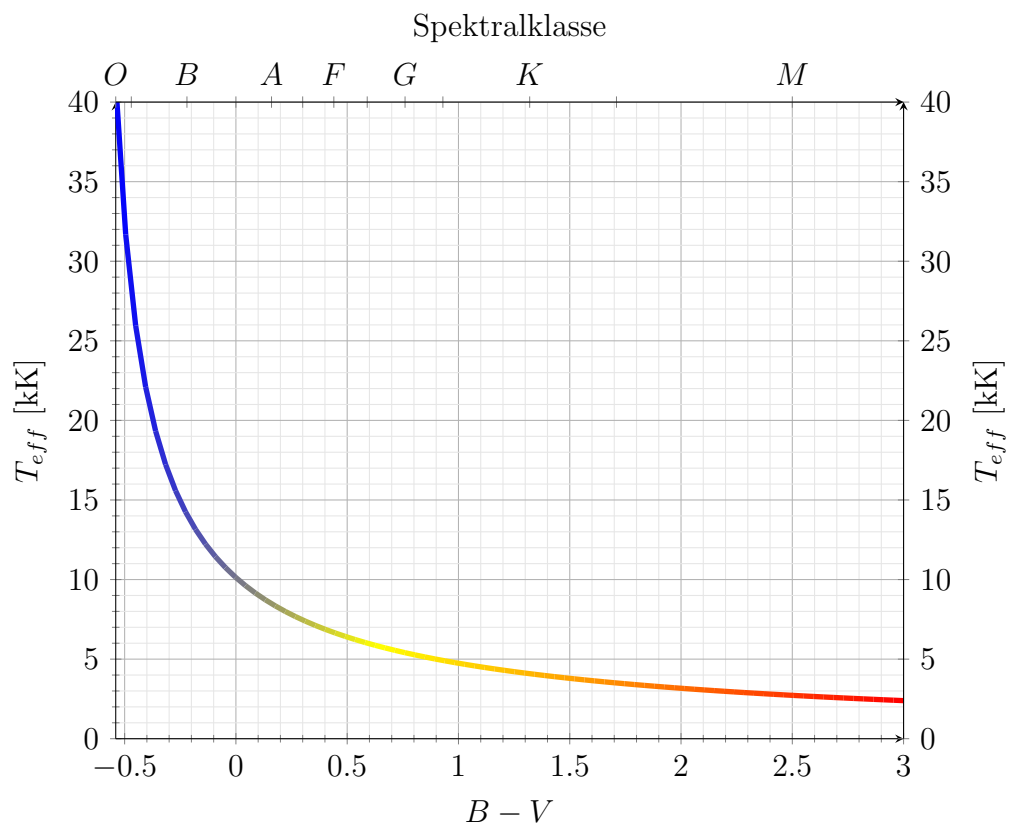


24.9 Zwei A0-Sterne im Vergleich

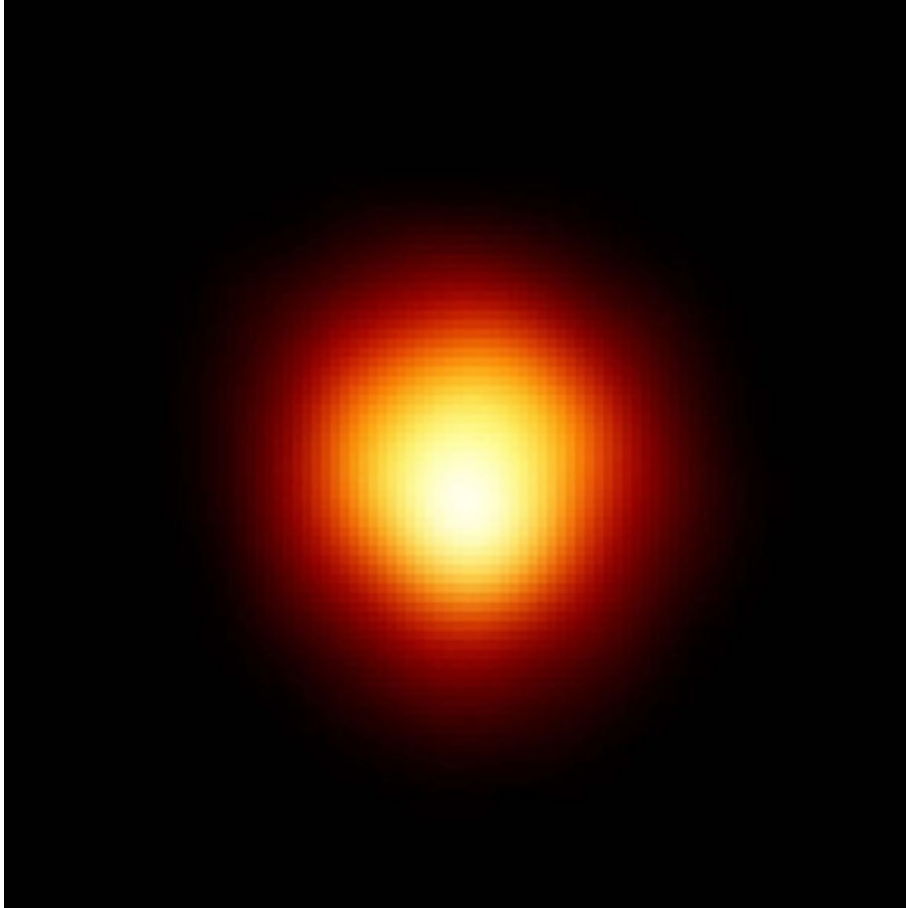


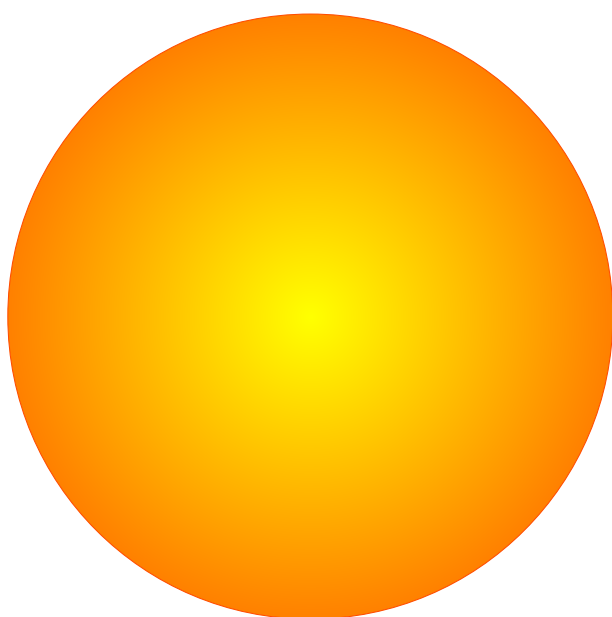
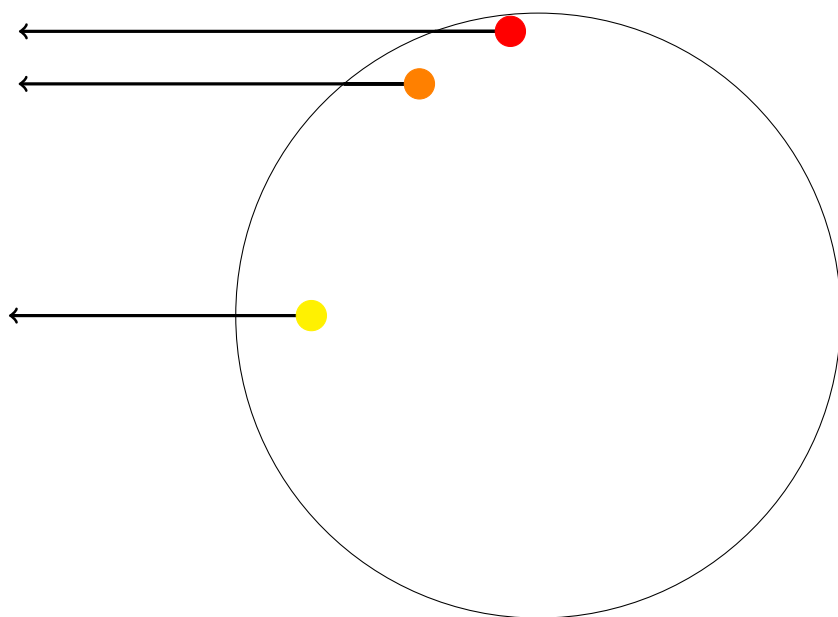
25 Hertzsprung-Russell-Diagramme



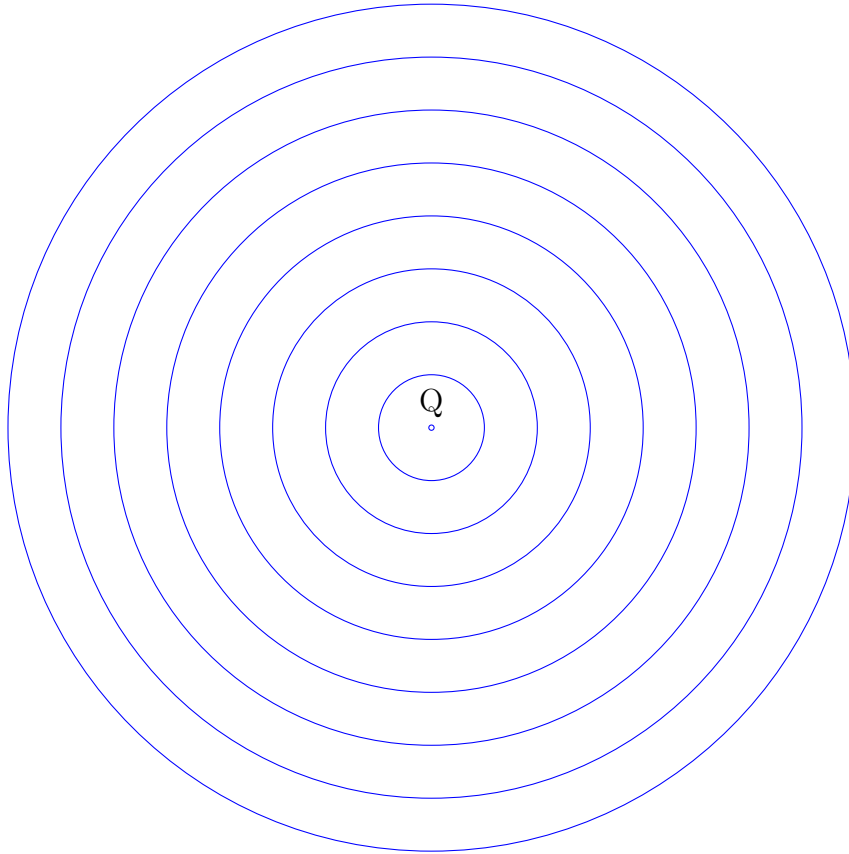


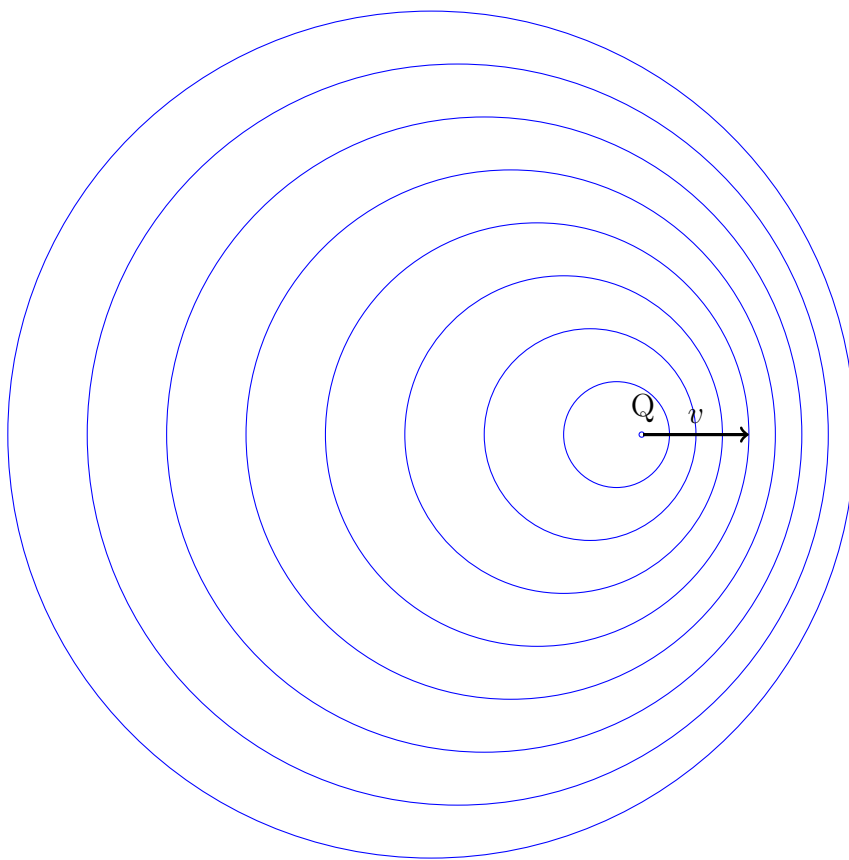
26 Sternradien



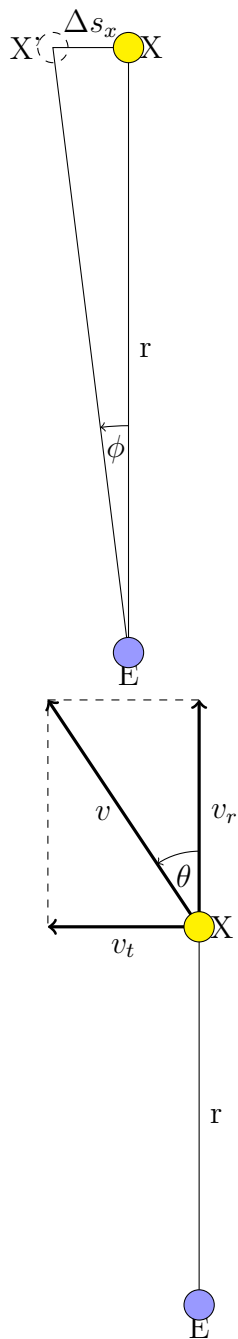


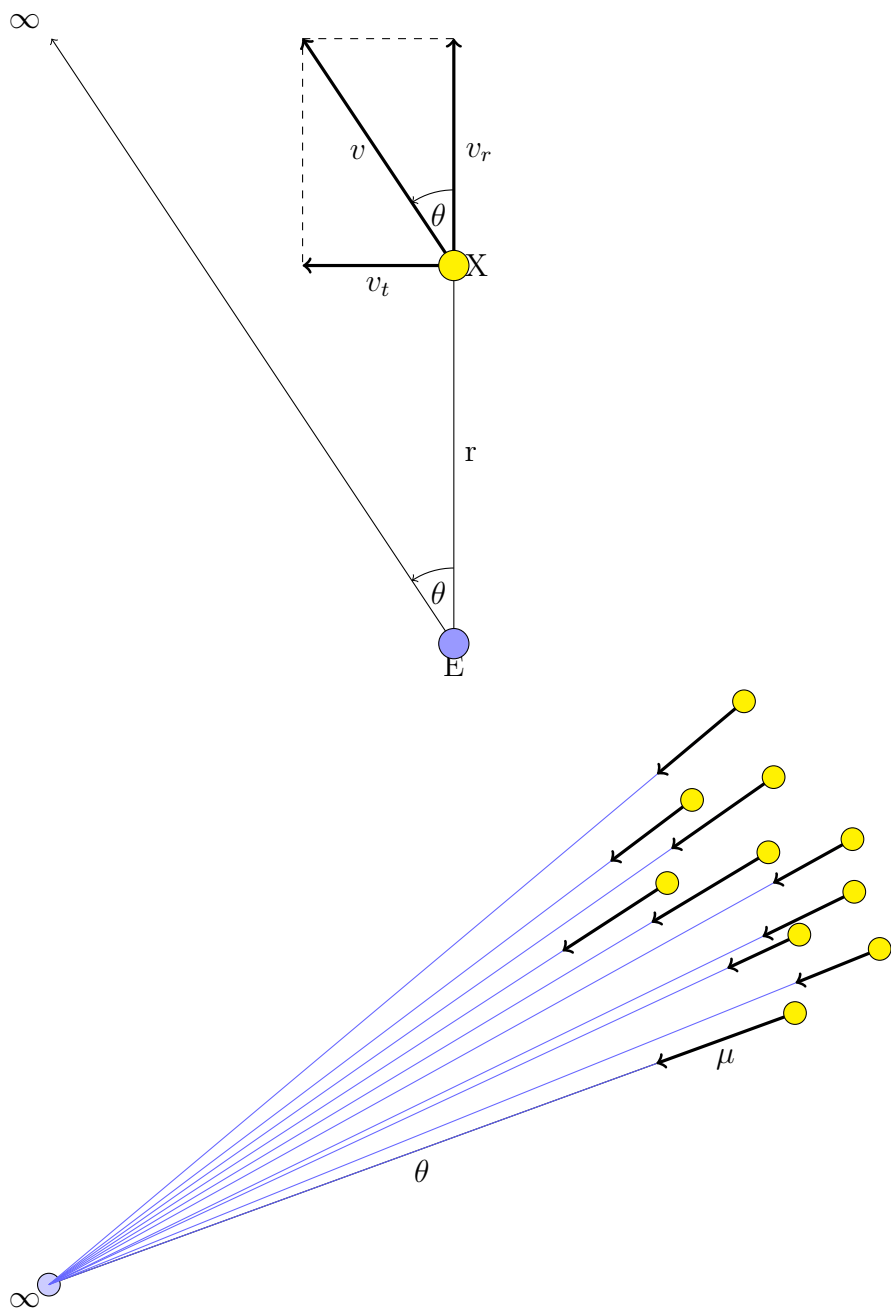
27 Der Dopplereffekt



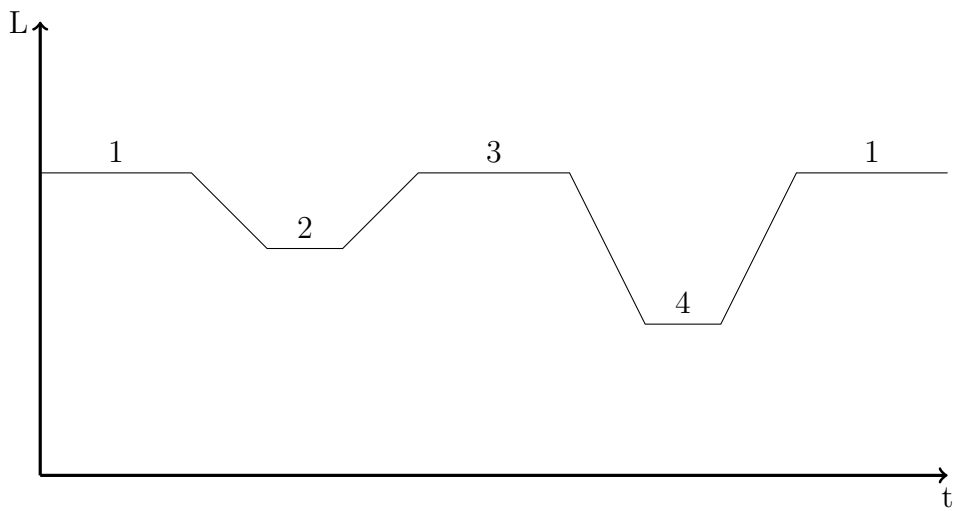
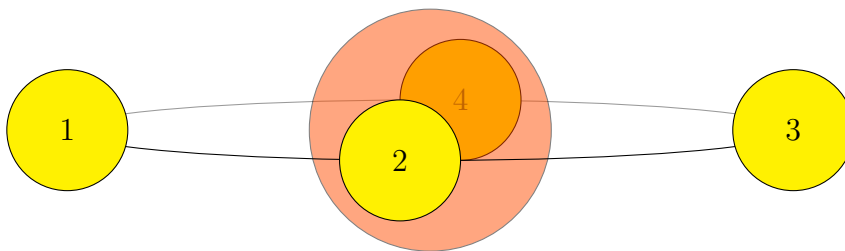
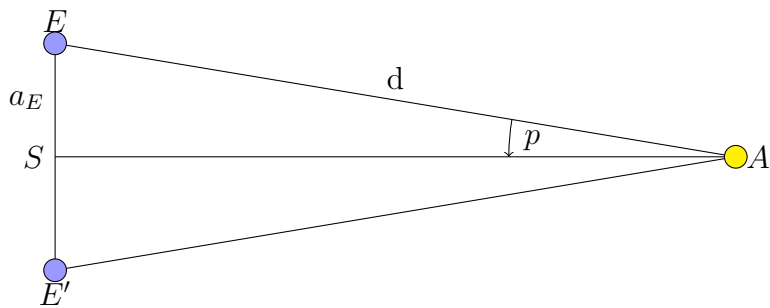
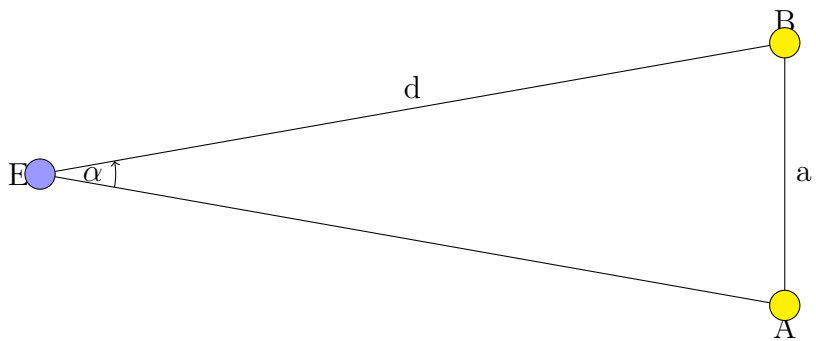


28 Die Eigenbewegung der Sterne

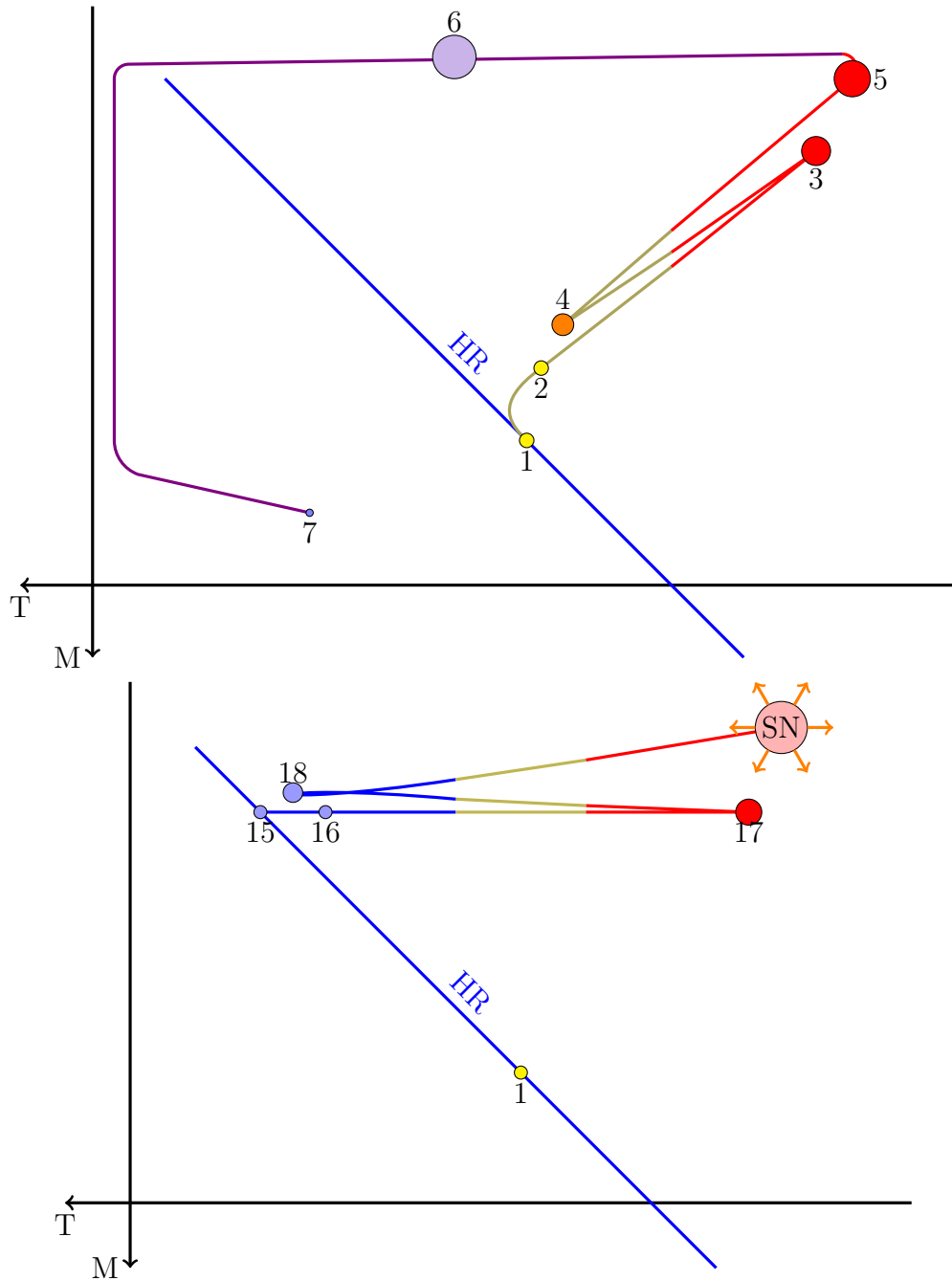




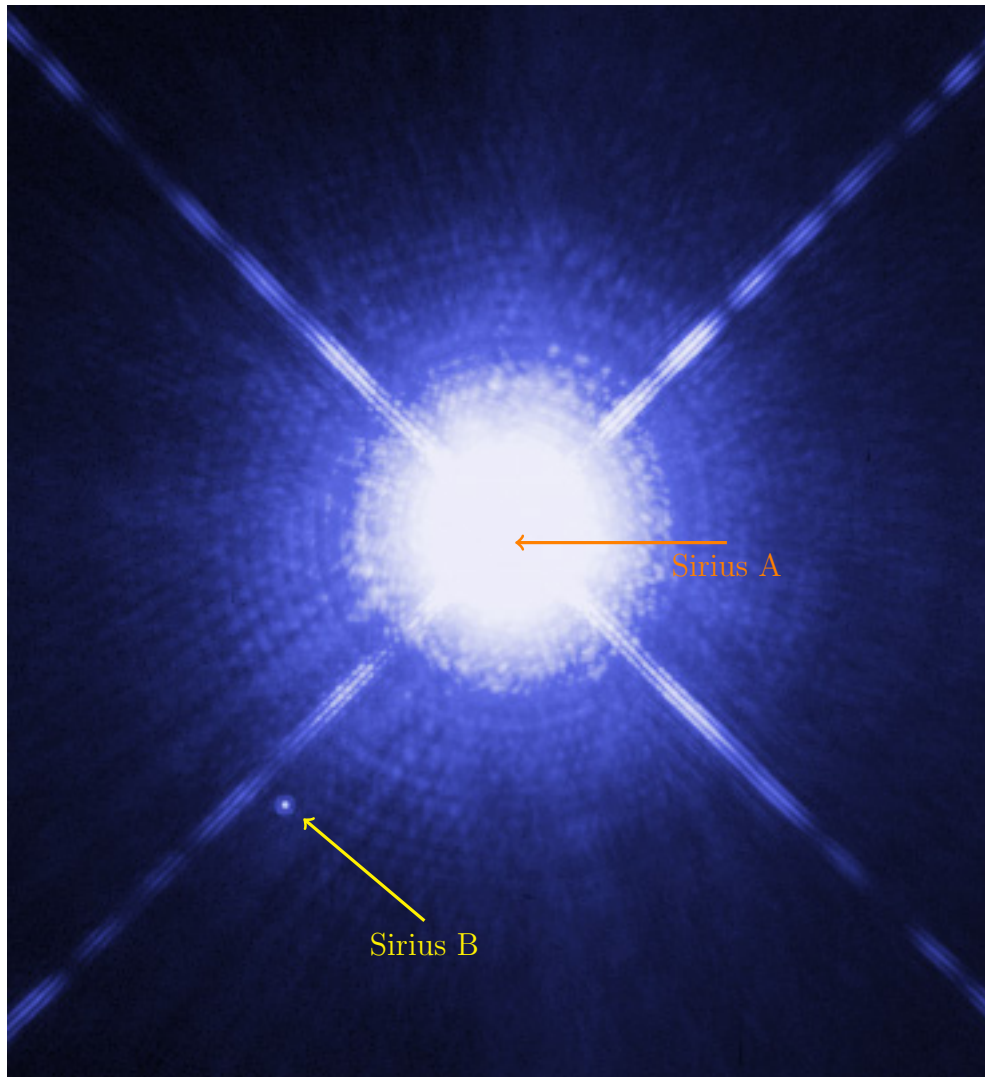
29 Doppelsterne



30 Vom Ende der Sterne

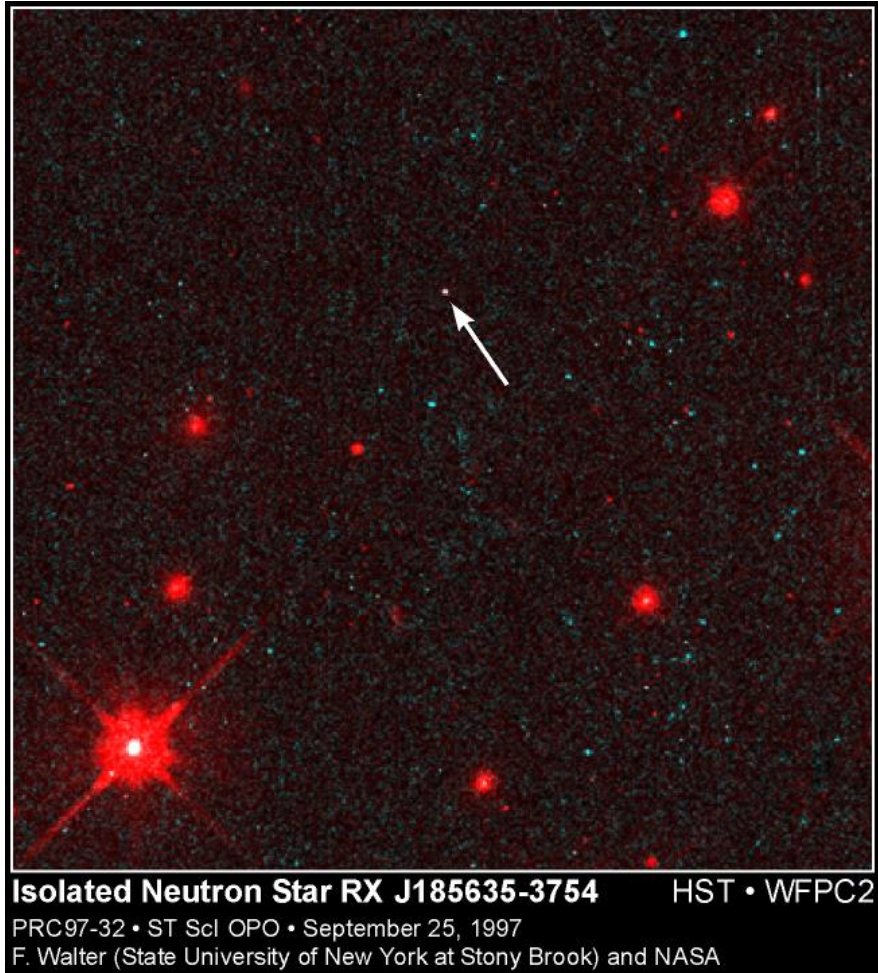


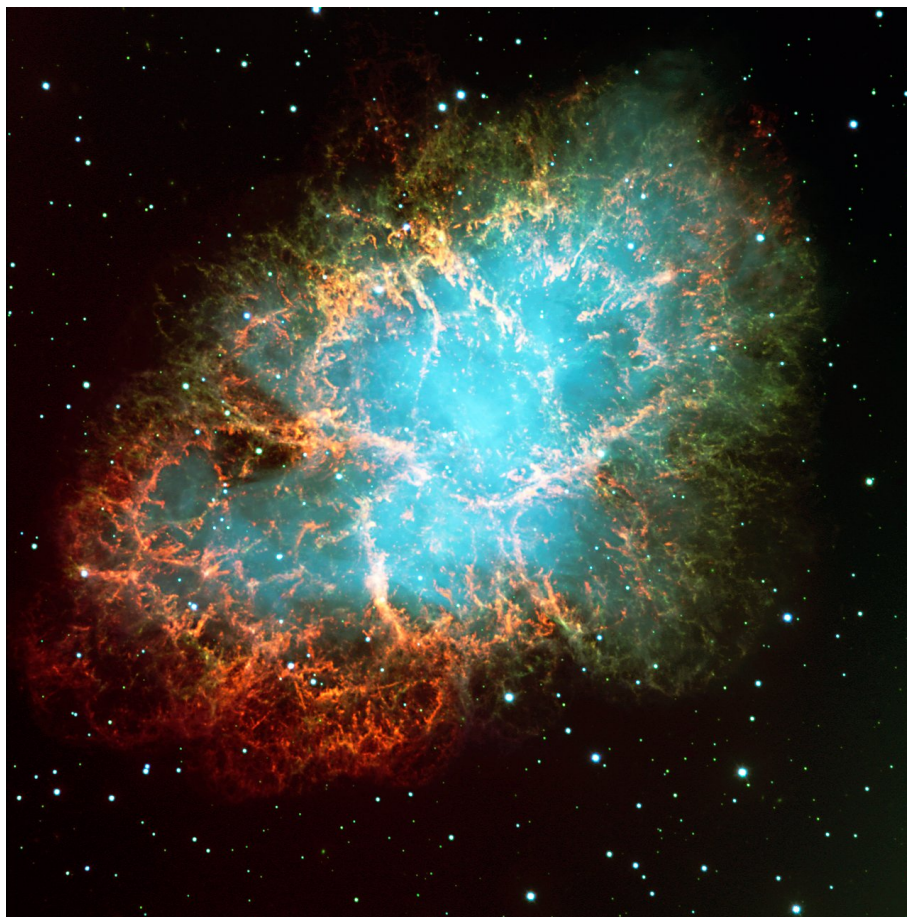
31 Weiße Zwerge

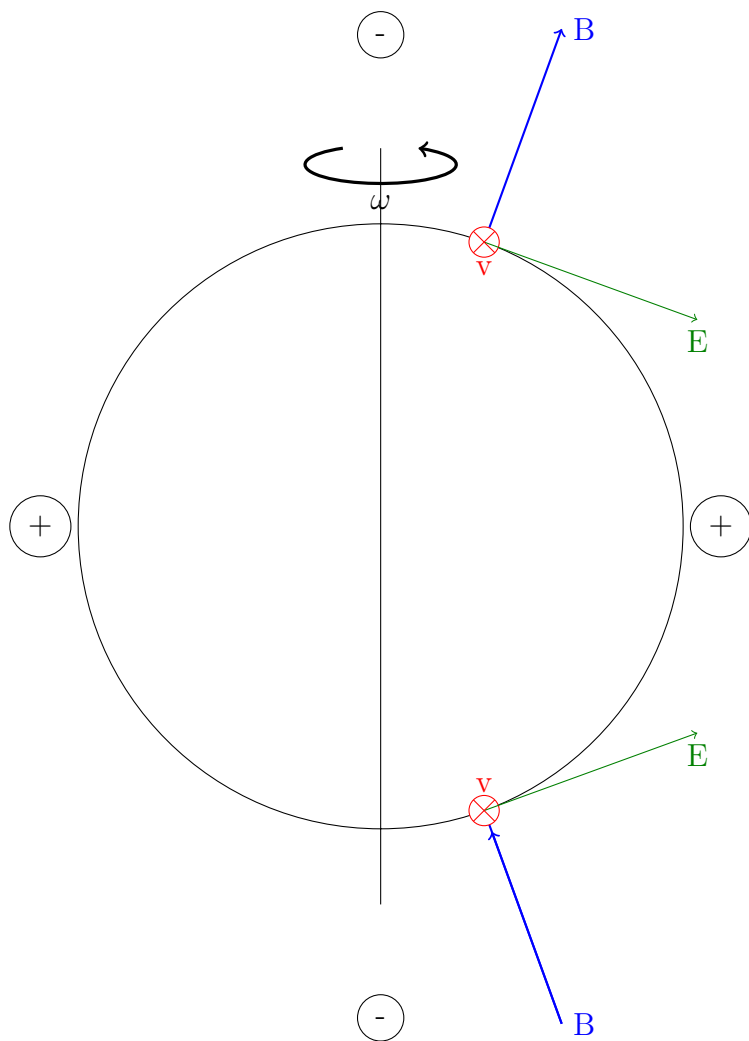


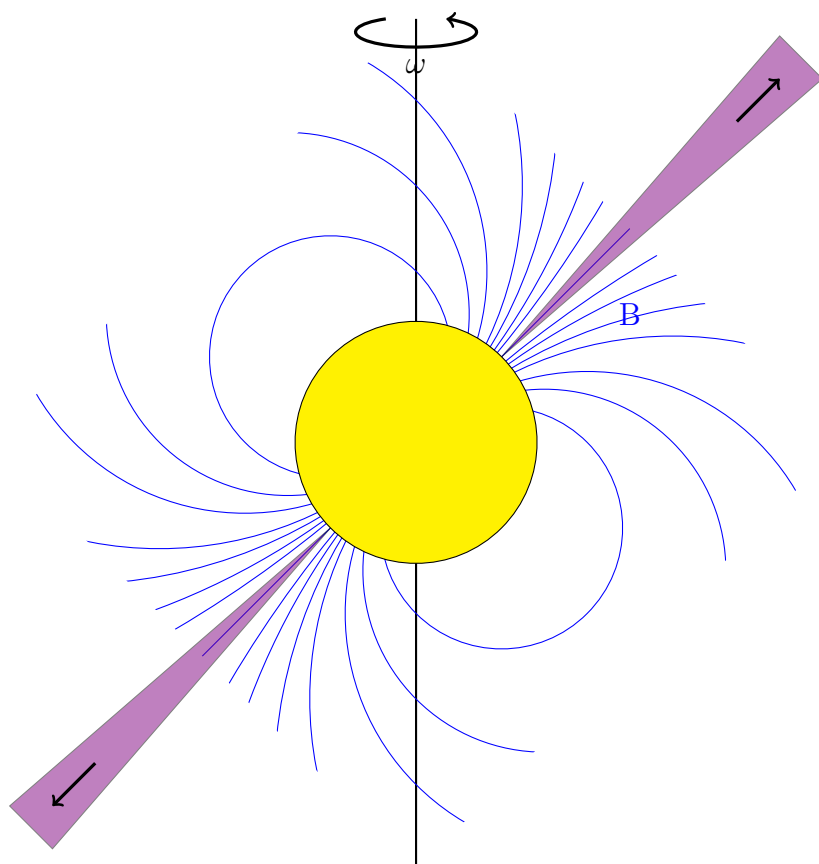


32 Neutronensterne





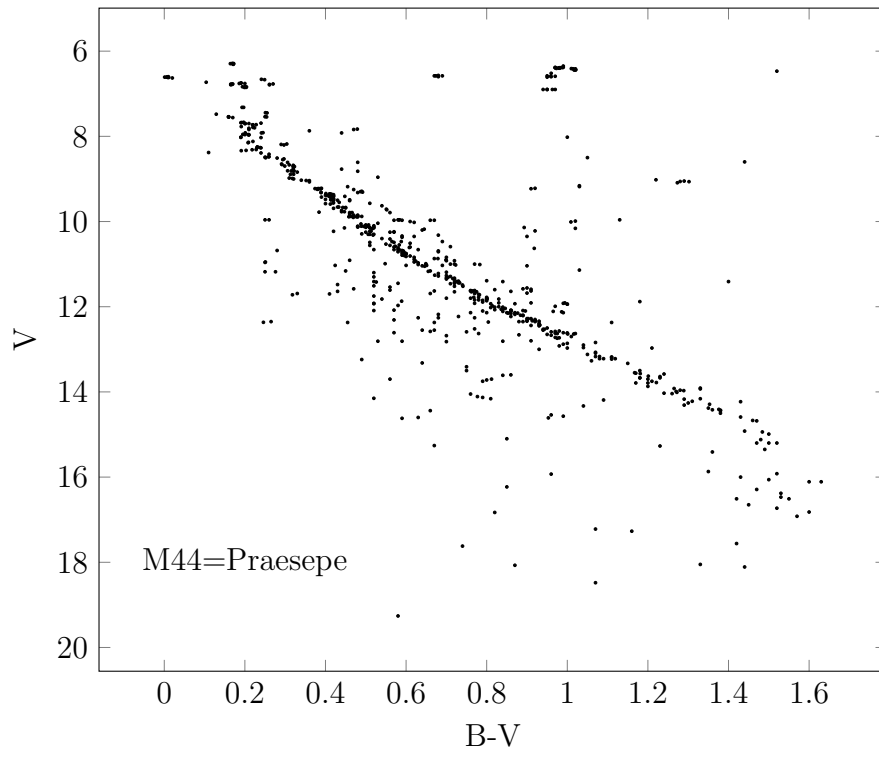


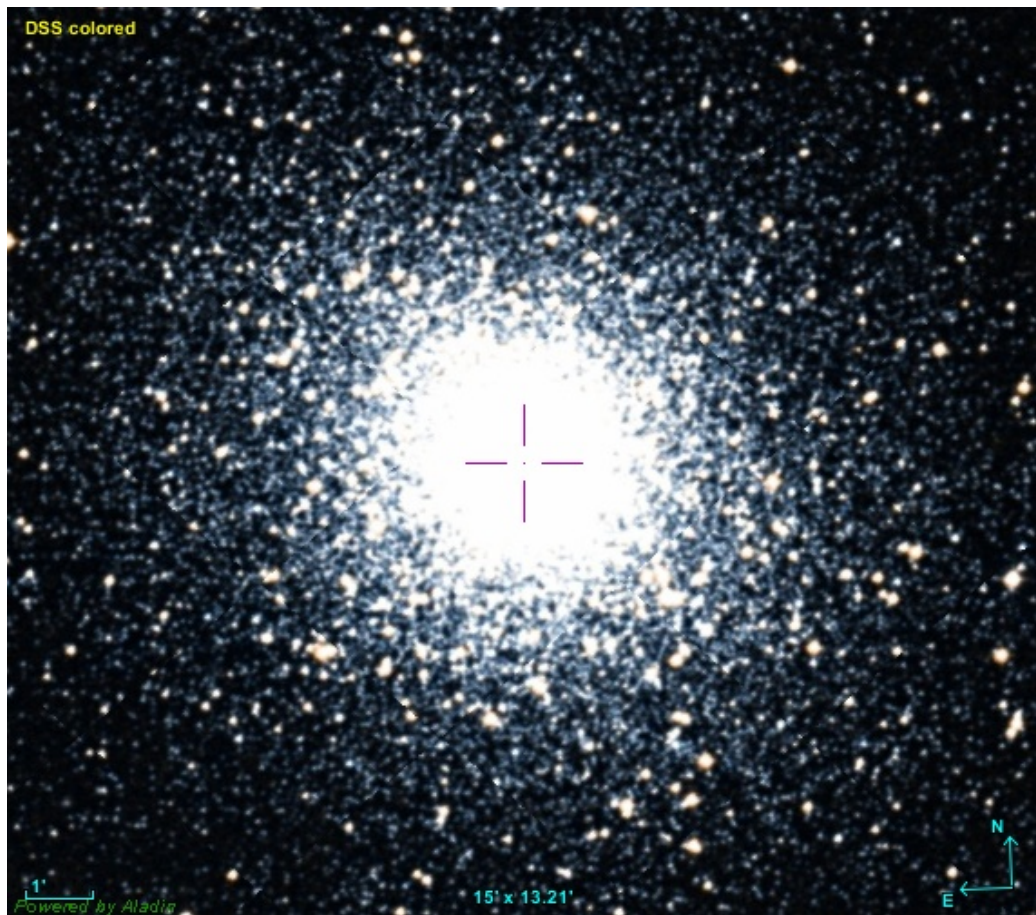


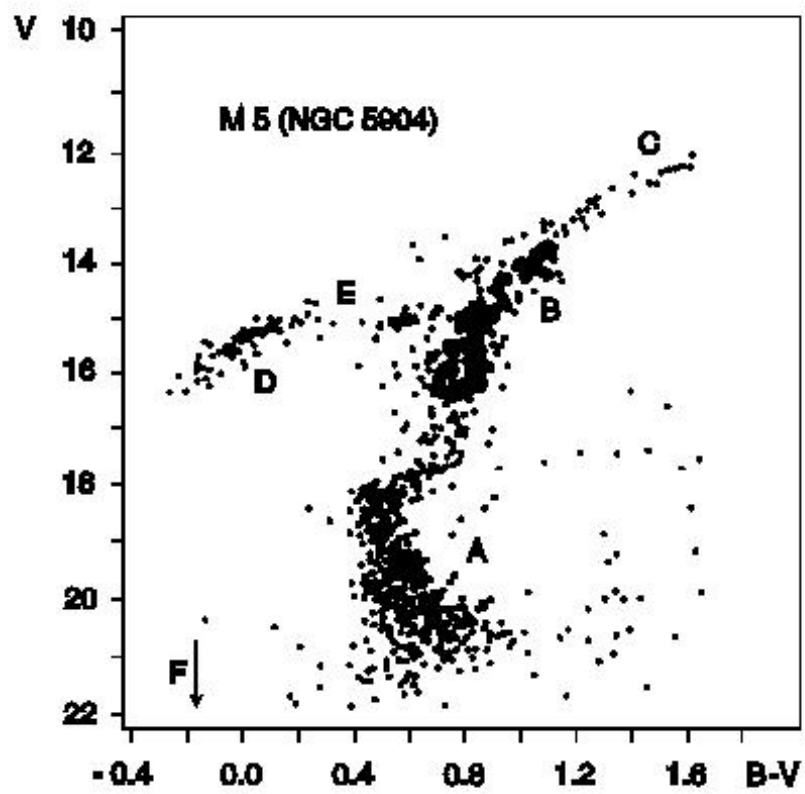
33 Schwarze Löcher

34 Sternhaufen

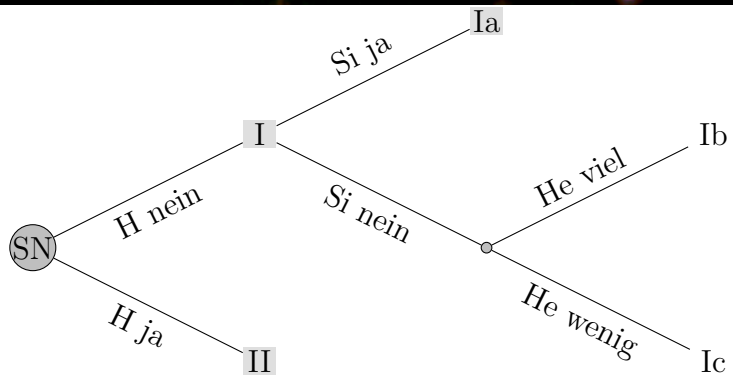
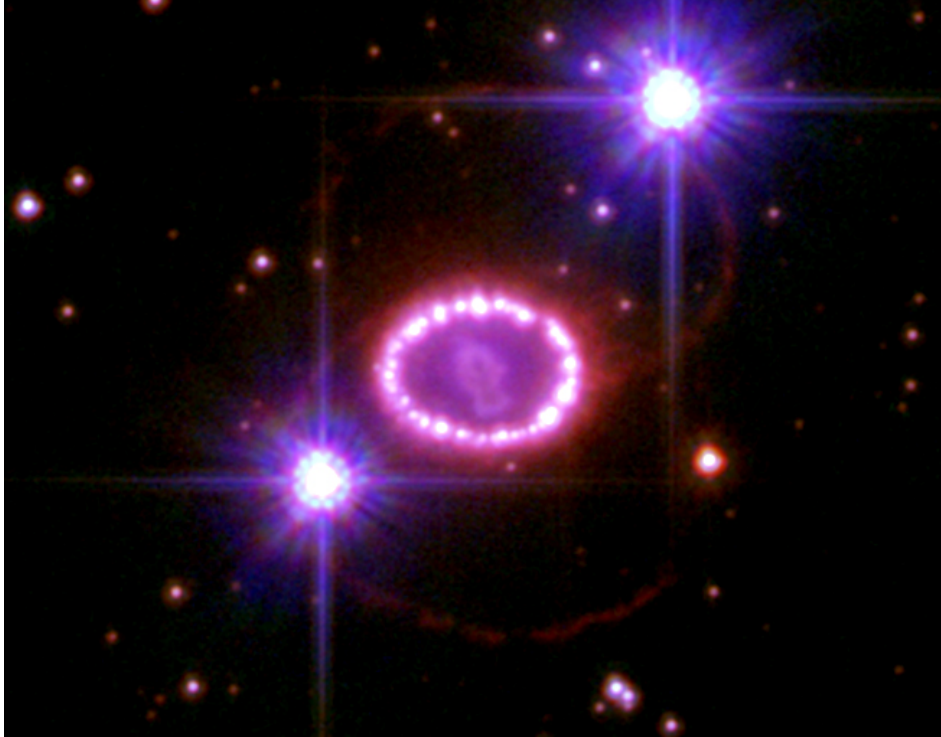








35 Veränderliche Sterne



36 Nebel

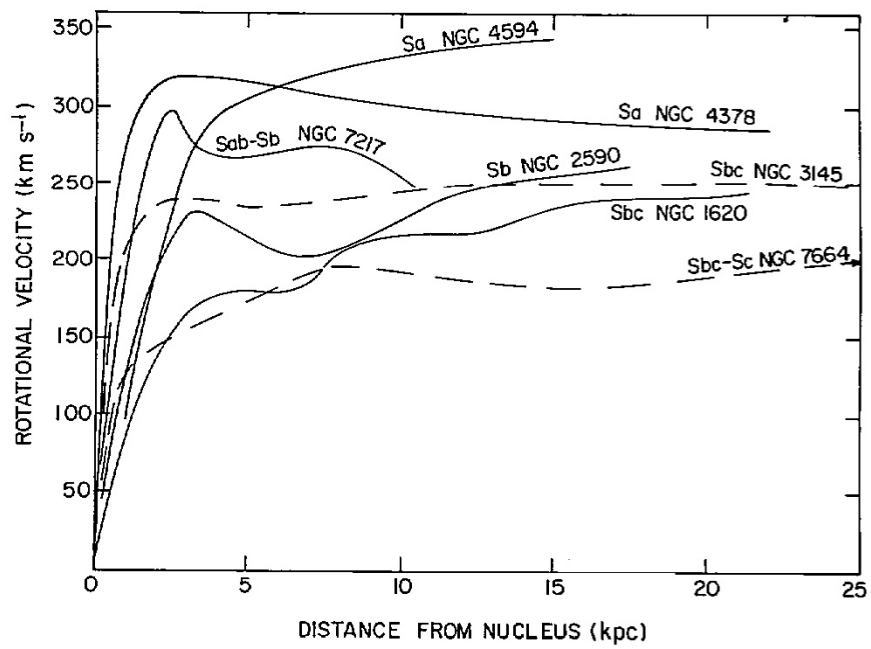
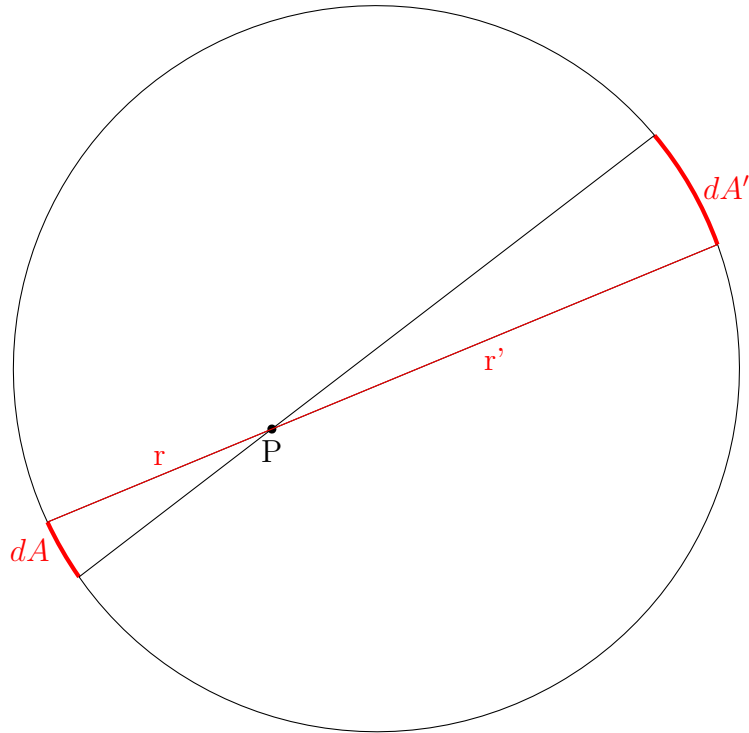
37 Von der Geburt der Sterne

38 Galaxien

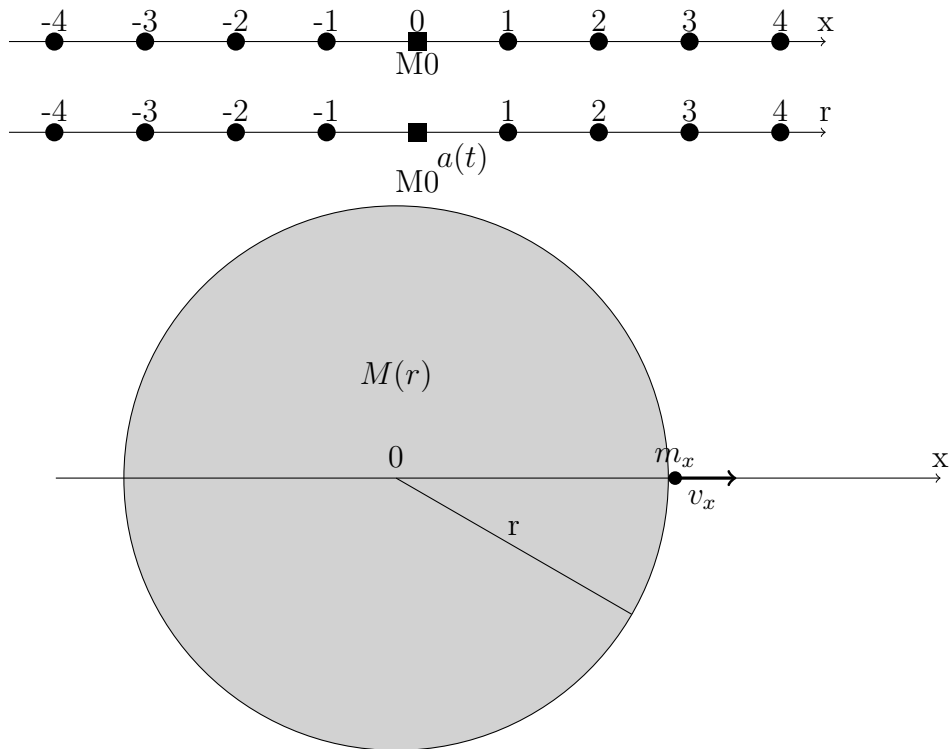








39 Kosmologie



COSMIC MICROWAVE BACKGROUND SPECTRUM FROM COBE

