Agenda for Ast 309N, Sep. 4

- Comments on Background Survey
- Feedback on card of 8/30 (posted separately)
- The Sun's energy source & internal structure
- Video segment: solar interior, energy transport
- [The Sun's surface, outer layers, activity cycle]
- [Video: what causes solar activity & storms]
- Index card: solar composition
- · Thursday: nuclear fusion and solar neutrinos

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Results from Background Survey

- 93% of you have the prerequisite (78% took Ast 301 at UT, 16% took it elsewhere)
- 85% have viewed a telescope/planetarium, or read articles/watched programs; 45% have done both
- Almost half don't remember who wrote the text they used in Ast 301 (many texts have similar titles)
- About 50% said they learned only "a fair amount."
- Average score on graded questions was ≈ 6/15 (40%)
- Weakest areas: End stages of stars (Ast 309N subject matter), also Properties of light (we'll review this!)

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Card, 8/30

• Feedback files for the index card activities will be posted separately, on the "Cards" page of the class website.

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The Sun: Vital Statistics

Luminosity: 3.8×10^{26} Watts

Radius: 6.96×10^5 km (109 × Earth)

Mass: 1.99 x 10³⁰ kg (300,000 × Earth) (1000 × Jupiter)

9/04/12

Average Density: 1410 kg/m³

(Actual density varies greatly from core to surface)



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