

Title: The case for geometry

Date: May 22, 2010 10:40 AM

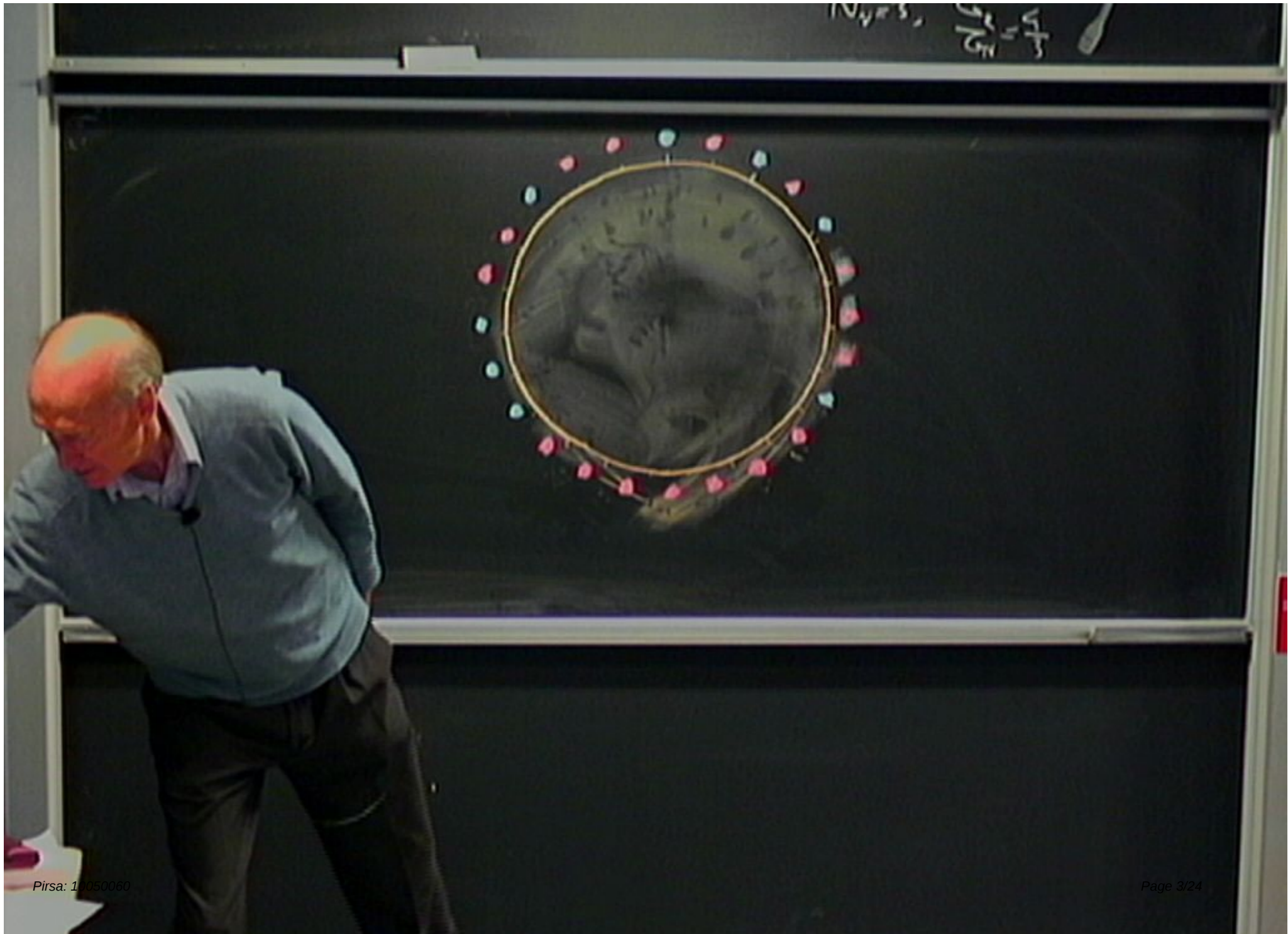
URL: <http://pirsa.org/10050060>

Abstract:

$$C = \pi D = \frac{22}{7} D = 24 \Rightarrow D = \frac{24 \cdot 7}{22} = \frac{11}{10} \times 7$$

$$D = 7.7$$

$$r = \frac{7.7}{2} = 3.85$$



$$\pi = \frac{22}{7}$$

$$C = \pi D = \frac{22}{7} D = 24 \Rightarrow D = \frac{24}{\frac{22}{7}} = \frac{11}{10} \times 7$$

$$D = 7.7$$

$$r = \frac{7.7}{2} = 3.85$$

$$N_4=3, \quad G_{\frac{1}{2}}=\frac{5}{3}$$



$$N_y = 3, \quad G_{\frac{1}{2}} = \frac{1}{2}$$



$$\begin{aligned} I_{j_i} &= 1 \\ \sum_{j_i} I_{j_i} &= I \\ \sum_{j_i} I_{j_i} &= I \end{aligned}$$

Need to define

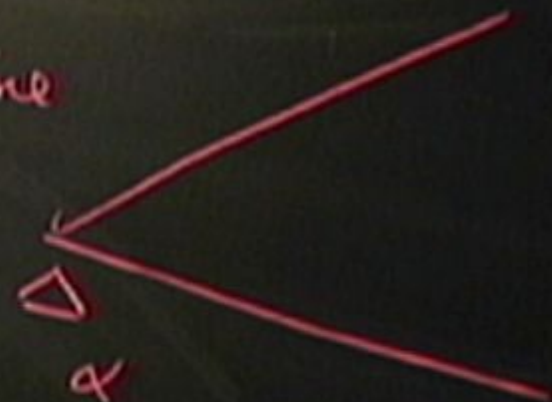
- 1 Position
- 2 Length
- 3 Instants
- 4 Duration
- 5 Simultaneity

Need to define

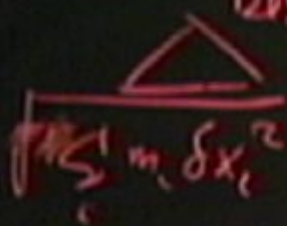
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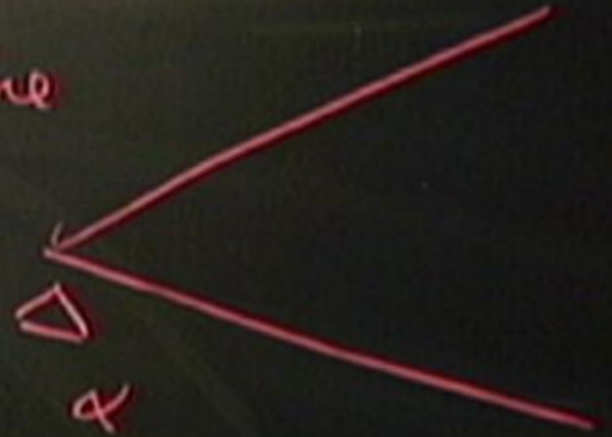
Best matching

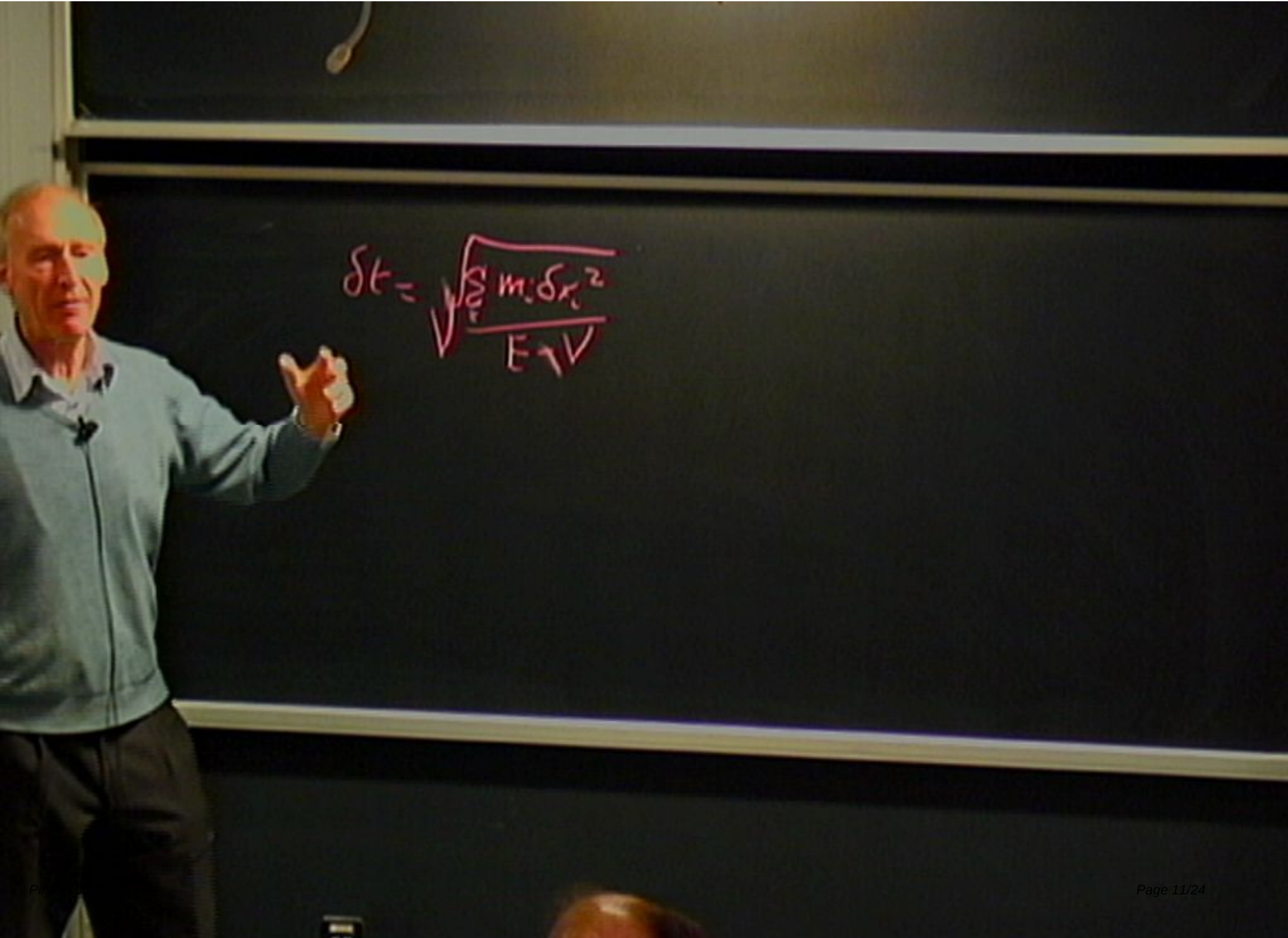


$$\sum m_i \delta x_i^2$$

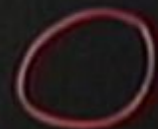
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A man with short grey hair, wearing a light blue zip-up sweater over a collared shirt, stands on the left side of the frame. He is pointing his right hand towards a chalkboard. The chalkboard is dark and has a mathematical equation written in red chalk. The equation is $\delta t = \frac{\sqrt{\sum_i m_i \delta x_i^2}}{E \gamma V}$. The chalkboard is divided into three horizontal sections by two white lines. The equation is written in the middle section. The man is standing in front of the middle section. The background is dark and out of focus.
$$\delta t = \frac{\sqrt{\sum_i m_i \delta x_i^2}}{E \gamma V}$$

$$\delta t = \sqrt{\frac{\sum m_i \delta x_i^2}{E - V}}$$



- 2 Length
- 3 Instability
- ✓ 4 Duration
- 5 Simultaneity

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See Dog

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$\frac{C}{E} = \text{Shore Space}$

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Riem. : $g_{ij}(x)$ on M 9 $\frac{C}{E} = \text{Shops Space}$

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Riem. : $g_{ij}(x)$ on M 9 $\frac{C}{E} = \text{Sho}$

Superspace = $\frac{\text{Riem.}}{\text{3-diffs}}$

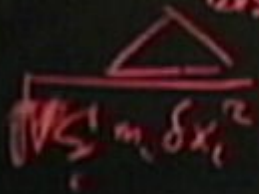
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Riem. : $g_{ij}(x)$ on M 9 $\frac{C}{E} = \text{Sho}$

Superspace = $\frac{\text{Riem}}{\text{3-diffs}}$
 $\frac{SS}{\text{3-diffs}}$



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$$\sqrt{\sum_i m_i \delta x_i^2}$$

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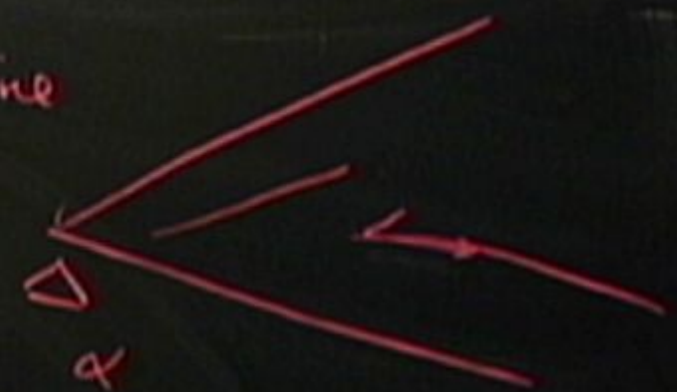
$$g_{ij} \quad p^{ij}$$

$$p^{ij}_{;j} = 0$$

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$$V = \frac{1}{2} E \cdot V$$

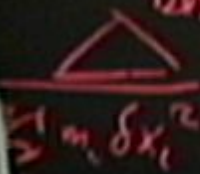
$$m = g_{ij} p^i p^j$$

$$g_{ij} p^i p^j$$

$$p_i p^i - \frac{1}{2} p^2 - g R = 0$$

$$p^i p^j = 0$$

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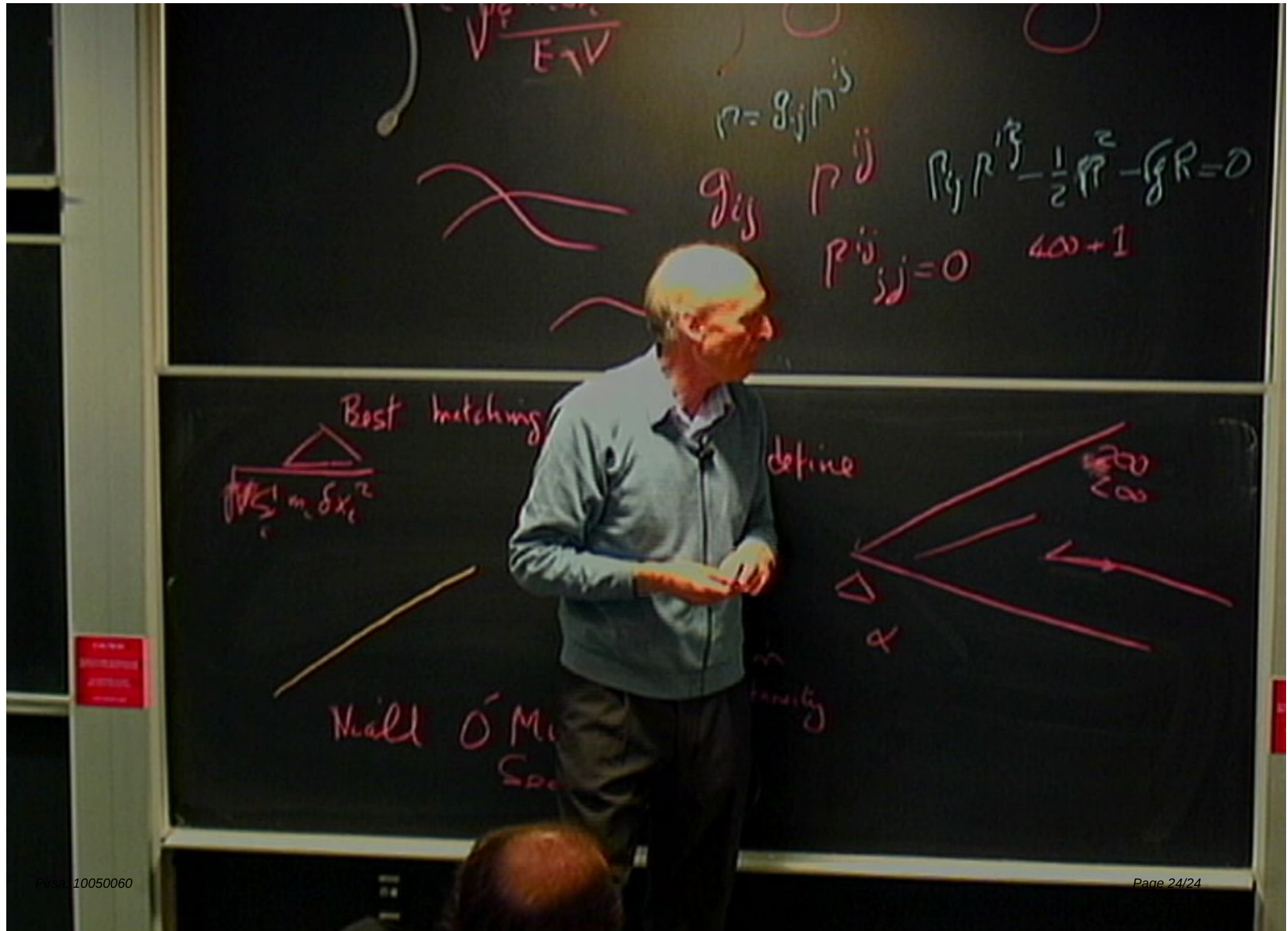
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$$\underline{\underline{\underline{h_{ij}}}}} \quad g_{ij} h^{ij} = h$$

$$R'^3 - \frac{1}{2} R'^2 - g R = 0$$

$$\begin{array}{c} \underline{\underline{h_{ij}}} \\ \underline{\underline{1 \ 1}} \\ \underline{\underline{h =}} \end{array}$$

$$g_{ij} h^{ij} = h$$



$$\frac{V}{E-V}$$

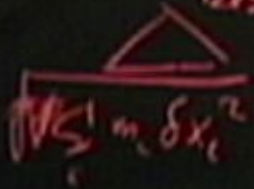
$$r = g_{ij} r^{ij}$$

$$g_{ij} \quad r^{ij}$$

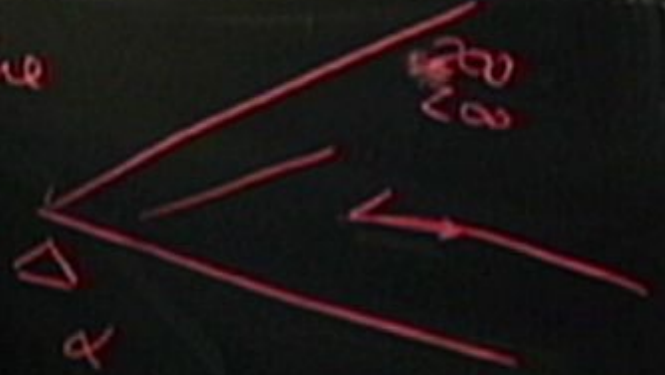
$$R_{ij} R^{ij} - \frac{1}{2} R^2 - \sqrt{g} R = 0$$

$$R^{ij}{}_{;j} = 0 \quad 400+1$$

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transitivity