

Title: Fotini's Group

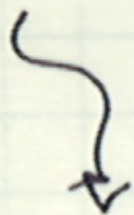
Date: Aug 27, 2004 09:20 AM

URL: <http://pirsa.org/04080010>

Abstract:

$$2 \times 10^3 \sqrt{zG+1}$$

$$2y \text{ } \cancel{\text{lp}^2} \sqrt{j(j+1)}$$



$$= \frac{\text{wavy line}}{4 \text{ } \cancel{\text{lp}^2}}$$

$$\Omega y \text{ } \cancel{\text{lp}^2} \sqrt{j(j+1)}$$

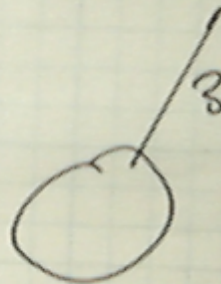
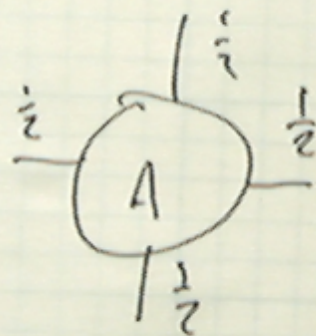
$$S = \ln \Omega$$

$$\textcircled{2} = \frac{\sim}{4 \text{ } \cancel{\text{lp}^2}}$$

$$A = 8\Omega y \sqrt{j(j+1)}$$

$$S = \ln \Omega$$

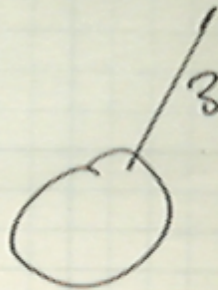
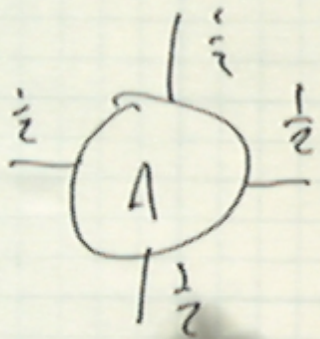
$$\ln(\Omega) = \frac{\text{wavy line}}{4 \text{ } \Omega^2}$$



$$A = 8\pi y \rho^2 \sum_{j=0}^{\infty} j(j+1)$$

$$S = \ln \Omega$$

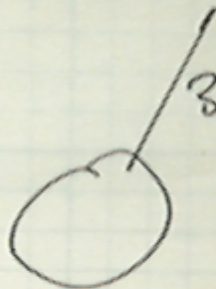
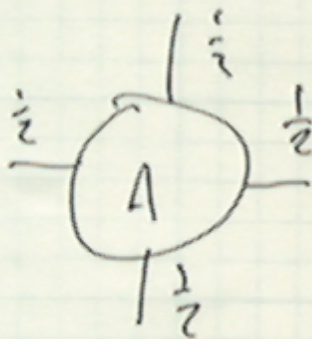
$$\ln(\Omega) = \frac{\text{wavy line}}{4 \rho^2}$$



$$A = 8\pi y \cdot 4\pi^2 \int j(j+1)$$

$$S = \ln \Omega$$

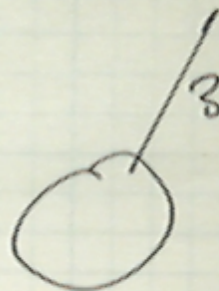
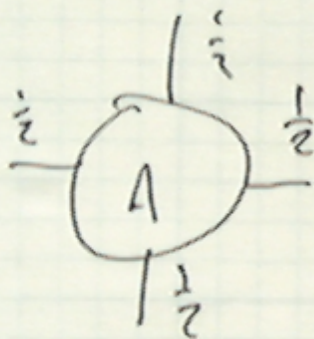
$$\ln(\Omega) = \frac{\text{wavy line}}{4 \cdot 4\pi^2}$$



$$A = 8\Omega y \, \text{lp}^2 \sqrt{j(j+1)}$$

$$S = \ln \Omega$$

$$\ln(\Omega) = \frac{\text{wavy line}}{4 \, \text{lp}^2}$$

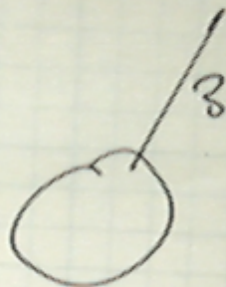
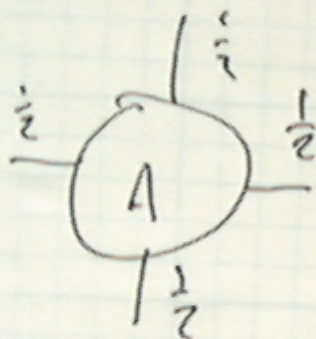


$$\Omega = n \ln(2j+1)$$

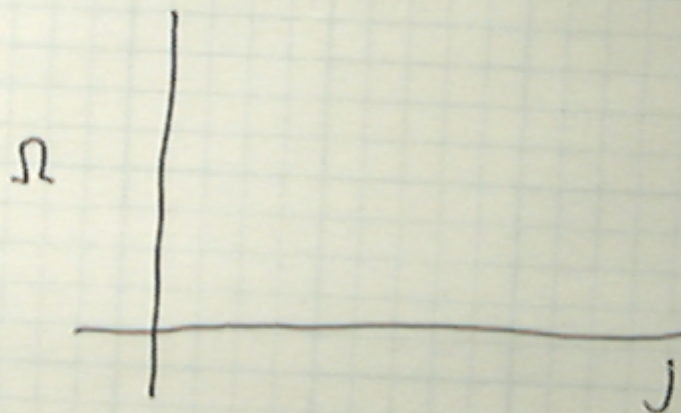
22-141 50 SHEETS
22-142 100 SHEETS
22-143 200 SHEETS



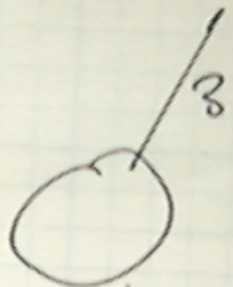
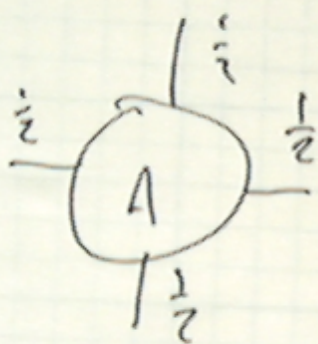
$$\ln(\Omega) = \frac{\text{wavy line}}{4 \text{ gp}}$$



$$\Omega = n \ln(2j+1)$$

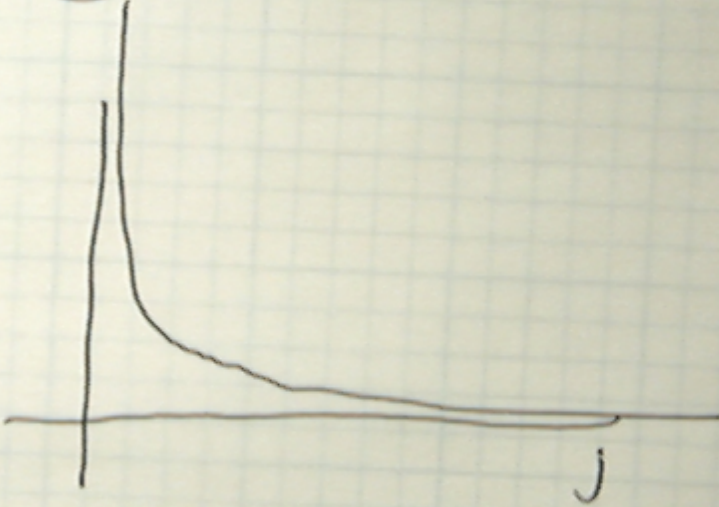


$$\ln(\Omega) = \frac{\text{wavy line}}{4 \text{ bp}}$$



Ω

$$\Omega = n \ln(2j+1)$$

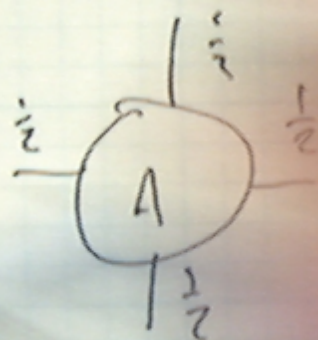


22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

WAMPAC

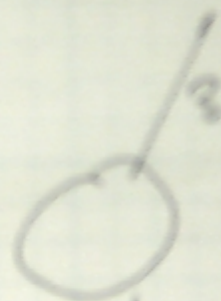
$A = 8 \frac{1}{2} \times 11 \frac{1}{2}$

$$\ln(\Omega) = \frac{\text{wavy line}}{4 \text{ bp}}$$



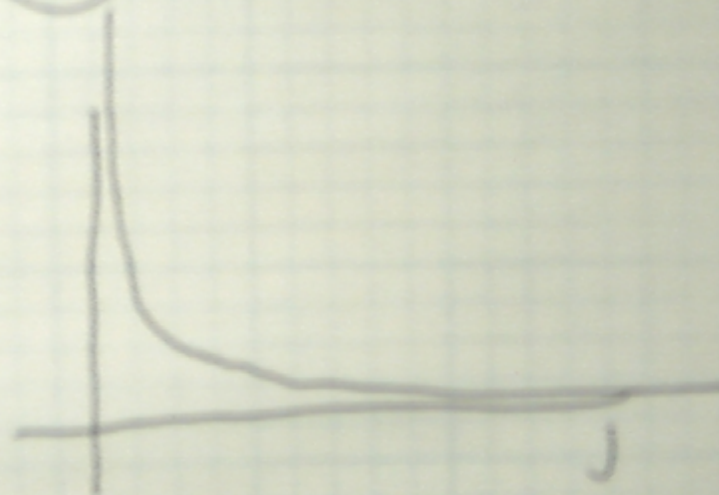
$$\sum \ln(2j+1)$$

$$\ln(\Omega) = \frac{\sum \dots}{9 \dots}$$



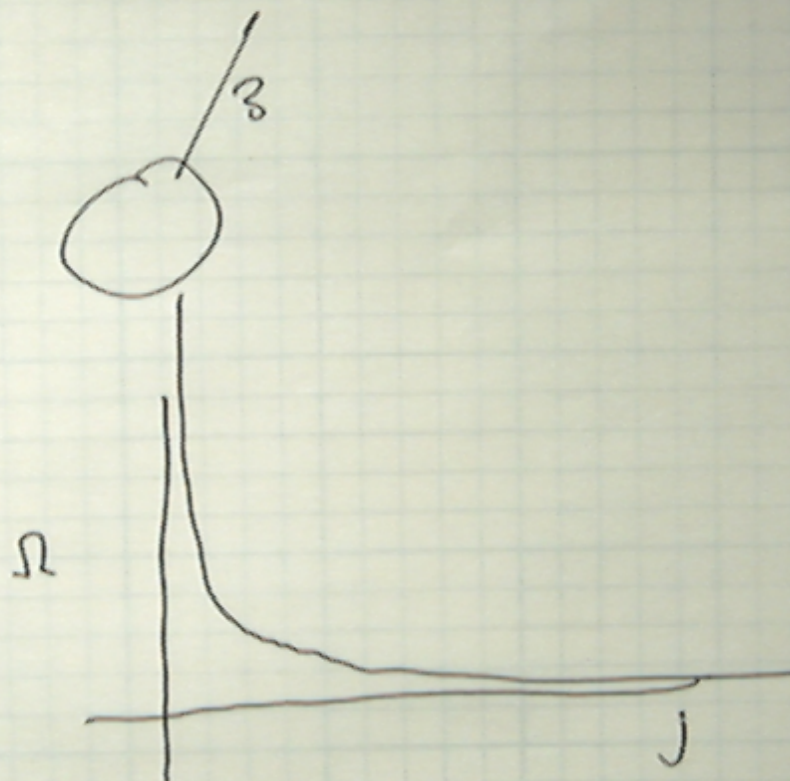
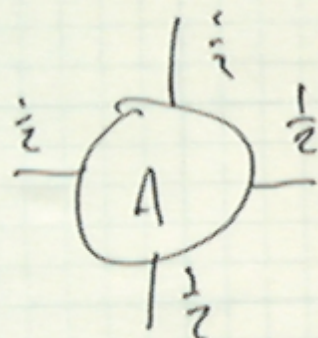
Ω

$$\ln(2j+1)$$



$A = 8 \times 10^3 \text{ p}$

$$\ln(\Omega) = \frac{\text{wavy line}}{4 \text{ bp}^2}$$



$$S \propto \ln(2j+1)$$

$$A = 8\pi l p^2 y \sqrt{j(j+1)}$$

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



$$A = 8\pi l p^2 y \sqrt{j(j+1)}$$

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

CAMPAL

$$\underline{A = 8\pi l p^2 y \sqrt{j(j+1)}}$$

$$n \ln(j+1) \cdot 8\pi l p^2 y \sqrt{j(j+1)} =$$

$$A = 8\pi l p^2 y \sqrt{j(j+1)}$$

$$n \ln(j+1) = 8\pi l p^2 y \sqrt{j(j+1)} =$$

$$A = 8\pi l p^2 y \sqrt{j(j+1)}$$

$$n \ln(j+1) = 8\pi l p^2 y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\underline{S}$$

$$\underline{A = 8\pi l_p^2 y \sqrt{j(j+1)}}$$

$$n \ln(j+1) = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{8\pi l_p^2 y \sqrt{j(j+1)}}{n \ln(2j+1)}$$

$$A = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$n \ln(j+1) = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{n \cdot 8\pi l_p^2 y \sqrt{j(j+1)}}{n \ln(2j+1)}$$

$$A = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$n \ln(j+1) = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{8\pi l_p^2 y \sqrt{j(j+1)}}{n \ln(2j+1)} = 4 l_p^2$$

$$y =$$

$$A = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$n \ln(j+1) = 8\pi l_p^2 y \sqrt{j(j+1)}$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{8\pi l_p^2 y \sqrt{j(j+1)}}{n \ln(2j+1)} = \frac{4}{\ln 2} l_p^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}}$$

$$n \ln(j+1) = 8 \pi \cdot \rho^2 \gamma \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{8 \pi \cdot \rho^2 \gamma \sqrt{j(j+1)}}{\ln(2j+1)} = 4 \rho^2$$

$$\gamma = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}}$$

$$A = 16 \pi^2$$

$$n \ln(j+1) \cdot 8\pi \cdot \rho^2 \cdot y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{8\pi \rho^2 y \sqrt{j(j+1)}}{\ln(2j+1)} = 4\rho^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}}$$

$$A = 16\pi \text{ m}^2$$

$$\Delta A = 32\pi \text{ m}^2$$

$$\ln(j+1) = 8\pi \rho^2 y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{2\pi \rho^2 y \sqrt{j(j+1)}}{\ln(2j+1)} = 4\rho^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}} \quad , \quad j=1 \Rightarrow \frac{\ln 3}{2\pi}$$

$$A = 16\pi M^2$$

$$\Delta A = 32\pi M \Delta M$$

$$\ln(j+1) = 8\pi b^2 y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{2\pi b^2 y \sqrt{j(j+1)}}{\ln(2j+1)} = 4b^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}}, \quad j=1 \Rightarrow \frac{\ln 3}{2\pi \sqrt{2}}$$

$$A = 16\pi M^2$$

$$\Delta A = 32\pi M \Delta M$$

$$\ln(j+1) = 8\pi b^2 y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{2\pi b^2 y \sqrt{j(j+1)}}{\ln(2j+1)} = 4b^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}}, \quad j=1 \Rightarrow \frac{\ln 3}{2\pi \sqrt{2}}$$

$$A = 16\pi M^2$$

$$\Delta A = 32\pi M \Delta M$$

$$\ln(j+1) = 8\pi \rho^2 y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{2 \cdot 8\pi \rho^2 y \sqrt{j(j+1)}}{\ln(2j+1)} = 4 \rho^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}} \quad , \quad j=1 \Rightarrow \frac{\ln 3}{2\pi \sqrt{2}}$$

$$A = 16\pi M^2$$

☺

"

$$\Delta A = 32\pi M \Delta M$$

$$\ln(j+1) = 8\pi \rho^2 y \sqrt{j(j+1)} =$$

$$S = n \ln(2j+1)$$

$$\frac{A}{S} = \frac{2 \cdot 8\pi \rho^2 y \sqrt{j(j+1)}}{\ln(2j+1)} = 4 \rho^2$$

$$y = \frac{\ln(2j+1)}{2\pi \sqrt{j(j+1)}} \quad , \quad j=1 \Rightarrow \frac{\ln 3}{2\pi \sqrt{2}}$$

😊

$$A = 16\pi M^2$$

$$\Delta A = 32\pi M \Delta M$$