



100



Wix 107

WIPIX

Wonders

Wiz 12 x 12 side

Wrongside - 1

Widow

1. *Wieder* 1

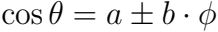
Wep

—
—

4

x

Wside



COBOL

2025

cos θ = $\frac{a}{b}$ or $\theta = \cos^{-1} \frac{a}{b}$

cos $\theta = a + b \pi^2 - c$











vide

—

er





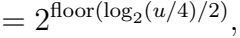
10.12.2020



$x = p + 4v_2$
side;

Widow

Widow





1v2 side;

4p,

4p,

+ 1,

4p,

+ 2,

4p,

+ 3,

2010s





$$f(\gamma) = \sum_{\ell=0}^{\ell_{\max}} \sum_m a_{\ell m} Y_{\ell m}(\gamma),$$



Q

E

[

O

,

π

]

ΦΕΛΩΣΤΕ







WAVE





$$a_{lm} \equiv \int d\gamma Y_{lm}^*(\gamma) f(\gamma);$$





OPEN AIR



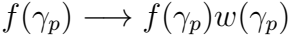


$$\hat{a}_{\ell m} = \frac{4\pi}{N_{\text{pix}}} \sum_{p=0}^{N_{\text{pix}}-1} Y_{\ell m}^*(\gamma_p) f(\gamma_p),$$





$$C_\ell = \frac{1}{2\ell + 1} \sum_m |a_{\ell m}|^2.$$





1990





for the first



1/4π





20 + 100













$$D_{X,\ell} = \frac{\ell(\ell+1)}{(2\pi)I_{\mathrm{CMB}}^2} C_{X,\ell};$$

1945-2025





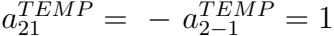


$$\frac{e(e+1)}{2\pi}$$

$$OX$$

$$e(e)$$





Q21 GRAD = 1

Q21 GRAD = 1









Q = 11.5 12.4

U = 1200





Q192



$$e_1 = \cos \psi \quad e_1 + e_1 \psi$$

$\psi_{\text{sid}} + \psi_{\text{cor}} + \psi_{\text{e}}$



$\psi_{\text{cos}} + \psi_{\text{sin}}$



— 2020 + 2020

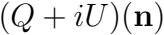








$$= \sum_{lm} a_{T,lm} Y_{lm}(\mathbf{r})$$



$$= \sum_{lm} a_{2,lm} Y_{lm}(\mathbf{r})$$



$$= \sum_{lm} a_{-2,lm} - 2Y_{lm}(\mathbf{r}).$$

1992-1993





2021

Q E 2017

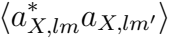
QED

$\frac{1}{2} \ln 2, \ln 2$ $\frac{1}{2} \ln 2, \ln 2$

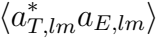








[illegible]



WELCOME TO THE







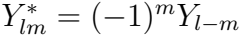
$$= - \sum_{lm} a_{E,lm} X_{1,lm} + i a_{B,lm} X_{2,lm}$$

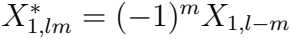
U R

$$= - \sum_{lm} a_{B,lm} X_{1,lm} - i \dot{a}_{E,lm} X_{2,lm}$$

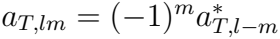
$$X_{1,m}(1) = 2X_m(2)$$

$$X_{2,m}(1) = X_{2,m}(2)$$

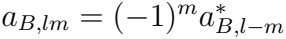




$$x^2 + 2x + 1 = (x + 1)^2$$



0E, mn = 1 mn OE, mn



1. π $\left(\frac{1}{2} \right)$

2021

$$Y_{l,m}(\mathbf{n}) = \sqrt{(2l+1)/4\pi} P_{l,m}(\theta) e^{im\phi}$$

$$Y_{2,\ell m}(1) = \sqrt{(2\ell+1)/4\pi} Y_{2,\ell m}(\theta) e^{im\phi}$$

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

11.000

$$= N_{lm} \left[- \left(\frac{l - m^2}{\sin^2 \theta} + \frac{1}{2} l(l - 1) \right) P_l^m(\cos \theta) + (l + m) \frac{\cos \theta}{\sin^2 \theta} P_{l-1}^m(\cos \theta) \right]$$

2020

$$= N_{lm} \frac{r^n}{\sin^2 \theta} \left[-(l-1) \cos \theta P_l^m(\cos \theta) + (l+m) P_{l-1}^m(\cos \theta) \right],$$

$$N_{lm}(\theta) = 2 \sqrt{\frac{(l-2)!(l-m)!}{(l+2)!(l+m)!}}.$$

2. $\sin \theta$









$$\sum_m s_1 Y_{lm}^*(\mathbf{n}_1) s_2 Y_{lm}(\mathbf{n}_2) = \sqrt{\frac{2l+1}{4\pi}} s_2 Y_{l-s_1}(\beta, \psi_1) e^{-is_2\psi_2}$$



$$= \sum_l \frac{2l+1}{4\pi} C_l P_l(\cos \beta)$$

W1000000

$$= \sum_l \frac{2l+1}{4\pi} [C_{El} F_{1,l2}(\beta) - C_{Bl} F_{2,l2}(\beta)]$$

W1W2W3

$$= \sum_l \frac{2l+1}{4\pi} [C_{Bl} F_{1,l2}(\beta) - C_{El} F_{2,l2}(\beta)]$$

$$= - \sum_l \frac{2l+1}{4\pi} C_l F_{1,l}(\beta)$$







QWERTY



A pixelated, black and white graphic of the text "P.O. → 1". The characters are rendered in a thick, blocky, and slightly irregular font, reminiscent of early digital art or video game text. The "P" and "O" are large and prominent, followed by a right-pointing arrow, and then the number "1". The entire graphic is composed of black and white pixels, giving it a retro, digital aesthetic.

$$P^2(\cos\theta) \rightarrow \sin^2\theta \frac{(\ell+2)!}{8(\ell-2)!}$$



$$= \sum_{\ell} \frac{2\ell + 1}{4\pi} C_{T\ell}$$



$$= \sum_{\ell} \frac{2\ell + 1}{4\pi} (C_{E\ell} + C_{B\ell})$$





$$\begin{pmatrix} Q' \\ U' \end{pmatrix} = \begin{pmatrix} \cos 2\psi & \sin 2\psi \\ -\sin 2\psi & \cos 2\psi \end{pmatrix} \begin{pmatrix} Q \\ U \end{pmatrix},$$

$$\begin{pmatrix} a'_{E,lm} \\ a'_{B,lm} \end{pmatrix} = \begin{pmatrix} \cos 2\psi & \sin 2\psi \\ -\sin 2\psi & \cos 2\psi \end{pmatrix} \begin{pmatrix} a_{E,lm} \\ a_{B,lm} \end{pmatrix}.$$

QWERTY

WE LOVE YOU











GRAD



2020

2020 GRAD

OPPORTUNITY



2020

2020 CORAL

CT-GRAD





ETG

2017-GRAD

$$M_{lm} = \begin{pmatrix} X_{1,lm} & iX_{2,lm} \\ -iX_{2,lm} & X_{1,lm} \end{pmatrix}$$





$$\begin{pmatrix} Q \\ U \end{pmatrix} = \sum_{lm} M_{lm} \begin{pmatrix} -a_{lm}^{\text{GRAD}} \\ -a_{lm}^{\text{CURL}} \end{pmatrix}.$$



$$\begin{pmatrix} Q \\ -U \end{pmatrix} = \sum_{lm} M_{lm} \begin{pmatrix} \sqrt{2}a_{\text{E},lm} \\ \sqrt{2}a_{\text{B},lm} \end{pmatrix},$$

$$\begin{pmatrix} Q \\ U \end{pmatrix} = \sum_{lm} M_{lm} \begin{pmatrix} -\sqrt{2}a_{lm}^{\text{GRAD}} \\ \sqrt{2}a_{lm}^{\text{CURL}} \end{pmatrix}.$$



















$$\sin \theta, \phi = \sin \cos \theta \sin \phi$$

WELSH

$$= \sqrt{\frac{2\ell+1}{4\pi} \frac{(\ell-m)!}{(\ell+m)!}} P_{\ell m}(x), \quad \text{for } m \geq 0$$



= 1) $m \times m$ matrix, for $m \times m$ matrix,

for the first time





$$(1-x^2)\frac{d^2}{dx^2}P_{lm}-2x\frac{d}{dx}P_{lm}+\left(\ell(\ell+1)-\frac{m^2}{1-x^2}\right)P_{lm}=0.$$



$$P_{lm} = (-1)^m (1-x^2)^{m/2} \frac{d^m}{dx^m} P_l(x),$$

$$P_{\ell}(x) = \frac{1}{2^{\ell}\ell!} \frac{d^{\ell}}{dx^{\ell}} (x^2 - 1)^{\ell}.$$





QPRIZ

$$f(p) = \int dw_p(\mathbf{v}) f(\mathbf{v})$$



100px

$$f(p) = \sum_{\ell=0}^{\ell_{\max}} \sum_m a_{\ell m} \mathcal{W}_{\ell m}(p),$$

$$w_{en}(p) = \int dv w_p(v) Y_{en}(v);$$

www.pearson.com

www.vip.vip

$$w_\ell(p) = \left(\frac{4\pi}{2\ell+1} \sum_{m=-\ell}^{\ell} |w_{\ell m}(p)|^2 \right)^{1/2},$$

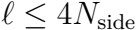




01111111 = 01111111



$$w_\ell = \left(\frac{1}{N_{\text{pix}}} \sum_{p=0}^{N_{\text{pix}}-1} w_\ell^2(p) \right)^{1/2}.$$



Widow

2

123

Ward

2

120

Walden

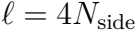
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123

100%

21.12.2020

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1001

1

0

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15