







Wix 105

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

cos θ = $\frac{a}{b}$ + $\frac{c}{d}$ = $\frac{a}{b}$ + $\frac{c}{d}$

2nd Floor (Level 4) (2)

4p,

4p,

+ 1,

4p,

+ 2,

4p,

+ 3,







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



Q

E

[

0

,

π

]

Φελισορπ





WAVE









OPEN AIR





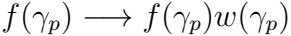
$$\frac{4\pi}{N_{\mathrm{pix}}}\sum_{p=0}^{N_{\mathrm{pix}}-1}Y_{\ell m}^*(\gamma_p)f(\gamma_p),$$







$$\frac{1}{2\ell+1}\sum_m|\hat{a}_{\ell m}|^2.$$





1990



for the first

1/4π





20 + 100













$$\frac{\ell(\ell+1)}{(2\pi)T_{\text{CMB}}^2}C_{X,\ell};$$

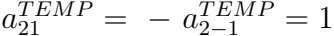


$$\frac{e(e+1)}{2\pi}$$

$$OX$$

$$e(e)$$





Q21 GRAD = 1

Q21 GRAD = 1





$$e_1 = \cos \psi \quad e_1 + e_1 \psi \quad e_2$$



corresponding to



$\psi_{\text{in}} + \psi_{\text{out}}$







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

$$lm$$



$a_{2,lm}$

2

Y_{lm}

(\mathbf{r})

lm

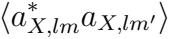
Σ $a_{-2,lm}$ $-$ $2Y_{lm}(\mathbf{r}).$ lm

1992-1993





2021



$$\partial_{m,m} \partial_{x_1} (\partial_1^* \partial_{m,E} \partial_{m,E}) = \partial_{m,m} \partial_{x_1}$$





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

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

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

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

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

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

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

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

2020-09-09

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

WORLD

$$2\sqrt{\frac{(l-2)!(l-m)!}{(l+2)!(l+m)!}}.$$

2. $\sin \theta$





$$s_1 Y_{lm}^*(n_1)$$

$$s_2 Y_{lm}(n_2)$$

m

$$\sqrt{\frac{2l+1}{4\pi}}\,s_2Y_{l-s_1}(\beta,\psi_1)e^{-is_2\psi_2}$$



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

W1000000

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

WORLD OF

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

$$-\sum_l \frac{2l+1}{4\pi} C_{cl} F_{1,l0}(\beta)$$



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 on a white background.

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



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



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





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

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





QINQ





GRAD



2020

2020 GRAD

OPPORTUNITY



2020

2020 CORAL

CT-GRAD





ETG

2

2017-GRAD

1000

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

$$\begin{pmatrix} Q \\ U \end{pmatrix}$$

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

$$\begin{pmatrix} Q \\ -U \end{pmatrix}$$

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

$$\begin{pmatrix} Q \\ U \end{pmatrix}$$

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

1990

Winnipeg, Manitoba

WELSH

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



1) $m \times n$ for $m \times n$;





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





$$(-1)^n(1-x^2)^{n/2}\frac{d^m}{dx^m}P_\ell(x),$$

1992

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

QPRIZ

$$\int dv_p(v) f(v)$$

100px

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

www.epi

$$\int d v v_p(v) Y_{\ell m}(v);$$

www.epi

Welpen

www.evo

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





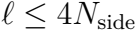


2019-2020





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



Widow

2

123

100%

21.12.2020

www.17105

A pixelated, grayscale version of the number 9. The image is composed of a grid of squares in various shades of gray, from white to black. The number 9 is formed by a thick, dark vertical stroke on the left, a curved top that extends to the right, and a small tail at the bottom right. The overall effect is a low-resolution, digital art style representation of the digit.

1001

