See @eq:max.

```
``
₂∇ × [⃗B] - 1/c ∂[⃗E]/∂t ₒ= 4π/c [⃗j] ¦#
              ∇ · [⃗E]\ ₒ= 4πρ          ¦
 ∇ × [⃗E] + 1/c ∂[⃗B]/∂t ₒ= [⃗0]         ¦
              ∇ · [⃗B]\ ₒ= 0            >
,﹨﹨{#eq:max}
```

where ﹨[⃗B], [⃗E], [⃗j]: ℝ⁴ → ℝ³﹨ − vector functions of
the form
﹨(t,x,y,z) ↦ [⃗f](t,x,y,z), [⃗f] = (f_⌐x⌐, f_⌐y⌐, f_⌐z⌐)﹨.

See eq. 1.

$$
\begin{aligned}
\nabla \times \mathbf{B} - \frac{1}{c}\frac{\partial \mathbf{E}}{\partial t} &= \frac{4\pi}{c}\mathbf{j} \\
\nabla \cdot \mathbf{E} &= 4\pi\rho \\
\nabla \times \mathbf{E} + \frac{1}{c}\frac{\partial \mathbf{B}}{\partial t} &= \mathbf{0} \\
\nabla \cdot \mathbf{B} &= 0
\end{aligned}
\qquad (1)
$$

where $\mathbf{B}, \mathbf{E}, \mathbf{j} : \mathbb{R}^4 \to \mathbb{R}^3$ − vector functions of the form $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z), \mathbf{f} = (f_\mathrm{x}, f_\mathrm{y}, f_\mathrm{z})$.

See @eq:max2.

```
``
₂∇ × B - 1/c ∂E/∂t ₒ= 4π/c j ¦#
           ∇ · E\ ₒ= 4πρ      ¦
 ∇ × E + 1/c ∂B/∂t ₒ= 0       ¦
           ∇ · B\ ₒ= 0        >
,﹨﹨{#eq:max2}
```

```
where ˎB, E, j: ℝ⁴ → ℝ³ˎ – vector functions of the form
ˎ(t,x,y,z) ↦ f(t,x,y,z), f = (f_ˎx', f_ˎy', f_ˎz')ˎ.
```

See eq. 2.

$$\nabla \times \mathbf{B} - \frac{1}{c}\frac{\partial \mathbf{E}}{\partial t} = \frac{4\pi}{c}\mathbf{j}$$
$$\nabla \cdot \mathbf{E} = 4\pi\rho$$
$$\nabla \times \mathbf{E} + \frac{1}{c}\frac{\partial \mathbf{B}}{\partial t} = \mathbf{0} \qquad , \qquad (2)$$
$$\nabla \cdot \mathbf{B} = 0$$

where $\mathbf{B}, \mathbf{E}, \mathbf{j} : \mathbb{R}^4 \to \mathbb{R}^3$ – vector functions of the form $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z), \mathbf{f} = (f_\mathrm{x}, f_\mathrm{y}, f_\mathrm{z})$.

```
ˎˎ [¨A] = [¨B]'ᵀ' [¨C] [¨B] ˎˎ


ˎˎ A = B'ᵀ'C B ˎˎ
```

$$\mathbf{A} = \mathbf{B}^{\mathrm{T}}\mathbf{C}\,\mathbf{B}$$

$$\mathbf{A} = \mathbf{B}^{\mathrm{T}}\mathbf{C}\,\mathbf{B}$$

```
ˎˎ
ˎ[ x₁₁ ˎx₁₂ ˎx₁₃ ˎ… ˎx₁ₙ ⌐¨
   x₂₁ ˎx₂₂ ˎx₂₃ ˎ… ˎx₂ₙ |
   ⋮  ˎ ⋮  ˎ ⋮  ˎ⋱ˎ ⋮  |
   xₚ₁ ˎxₚ₂ ˎxₚ₃ ˎ… ˎxₚₙ ]ˏ ˎˎ
```

$$\begin{bmatrix} x_{11} & x_{12} & x_{13} & \cdots & x_{1n} \\ x_{21} & x_{22} & x_{23} & \cdots & x_{2n} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ x_{p1} & x_{p2} & x_{p3} & \cdots & x_{pn} \end{bmatrix}$$

```
`` `def`B{
 ₋[ ax₀ + by₁ ¦¨
    ax₁ + by₂ ¦
       ⋮      ¦
    ax_{N-1} + by_{N-1} ]﹥
}¦
`B = a[⃗x] + b[⃗y] ``
```

$$\begin{bmatrix} ax_0 + by_1 \\ ax_1 + by_2 \\ \vdots \\ ax_{N-1} + by_{N-1} \end{bmatrix} = a\mathbf{x} + b\mathbf{y}$$

```
`` .|x|. = {∈  x. ‹if› x≥0 ¦
              -x. ‹if› x<0 } ``

`` ˹boole˺(x) = {∈ 1. ‹if ˌxˌ is › [ᵐTrue]  ¦
                   0. ‹if ˌxˌ is › [ᵐFalse] } ``
```

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

$$\text{boole}(x) = \begin{cases} 1 & \text{if } x \text{ is True} \\ 0 & \text{if } x \text{ is False} \end{cases}$$

```
.. 'lim'_x→0 ₍'sin' x₎/x = 1..
.. U_{δ₁ρ₂}^{β₁α₂} ..
.. √x = 1 + ₍x-1₎/ᶜ{2 + ₍x-1₎/ᶜ{2 + ₍x-1₎/ᶜ{2 + ∵}}} ..
.. 'sin'² x¨ + 'cos'² x¨ = 1 ..
```

$$\lim_{x\to 0}\frac{\sin x}{x}=1$$

$$U^{\beta_1\alpha_2}_{\delta_1\rho_2}$$

$$\sqrt{x}=1+\cfrac{x-1}{2+\cfrac{x-1}{2+\cfrac{x-1}{2+\ddots}}}$$

$$\sin^2\ddot{x}+\cos^2\ddot{x}=1$$

```
.. α₂³/³√{β₂² + γ₂²} ..
.. (x + y)² = Σk=0^∞ (n¦ᶜk)xⁿ⁻ᵏyᵏ ..
.. (n¦ᶜk) = ₍(n¦:k)₎, ₍[n¦:k]₎ ..
```

$$\frac{\alpha_2^3}{\sqrt[3]{\beta_2^2+\gamma_2^2}}$$

$$(x+y)^2=\sum_{k=0}^{\infty}\binom{n}{k}x^{n-k}y^k$$

$$\binom{n}{k}=\binom{n}{k},\quad\begin{bmatrix}n\\k\end{bmatrix}$$

```
‥ {x + … + x}⁓⌐{k ‹times›} ‥
‥ πd²/4 1/.(A+B).² =
  πd²/4◉{.(A).²} 1/.(A+B).² ‥
‥ Σⁿ_{0≤i≤N !_ 0≤j≤M} (ij)² +
  Σⁿ_{i∈A !_¹ 0≤j≤M} (ij)²  ‥
```

$$\overbrace{x + \ldots + x}^{k \text{ times}}$$

$$\frac{\pi d^2}{4} \frac{1}{(A+B)^2} = \frac{\pi d^2}{4} \frac{1}{(A+B)^2}$$

$$\sum_{\substack{0 \leq i \leq N \\ 0 \leq j \leq M}}^{n} (ij)^2 + \sum_{\substack{i \in A \\ 0 \leq j \leq M}}^{n} (ij)^2$$

```
‥ ⌐erf⌐(x) = 1/√π ∫_ₓˣ e^{-t²} dt ‥
‥ f⁽²⁾(0) = f''(0) = .<d²f/dx²|.ₓ₌₀ ‥
Text ‥.(‹a .b !∷t c .d›)..‥ and some more text.
```

$$\text{erf}(x) = \frac{1}{\sqrt{\pi}} \int_{-x}^{x} e^{-t^2} \, dt$$

$$f^{(2)}(0) = f''(0) = \left. \frac{d^2 f}{dx^2} \right|_{x=0}$$

Text $\left(\begin{smallmatrix} a & b \\ c & d \end{smallmatrix} \right)$ and some more text.

prefix unary operator →⌐ :

```
`` f: x →¯{‹arrow map›} _i x²  ``
```

$$f : x \xrightarrow[i]{\text{arrow map}} x^2$$

center binary operator ¯ :

```
`` f: x → ¯‹arrow map› _i x²  ``
```

$$f : x \overset{\text{arrow map}}{\underset{i}{\rightarrow}} x^2$$

bug because styles also implemented as prefix unary operators (but by design styles should have priority!):

```
`` f: x →¯‹arrow map› _i x²  ``
```

$$f : x \xrightarrow[i]{‹arrow} map› x^2$$