```
See @eq:max.

``
⎧∇ × [⃗B] - 1/c ∂[⃗E]/∂t ⎫= 4π/c [⃗j] ⎪#
               ∇ · [⃗E]\ ⎪= 4πρ       ⎪
 ∇ × [⃗E] + 1/c ∂[⃗B]/∂t ⎪= [⃗0]      ⎪
               ∇ · [⃗B]\ ⎭= 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.

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

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.

``
⎧∇ × B - 1/c ∂E/∂t ⎫= 4π/c j ⎪#
            ∇ · E\ ⎪= 4πρ     ⎪
 ∇ × E + 1/c ∂B/∂t ⎪= 0       ⎪
            ∇ · B\ ⎭= 0       ⎩
,,,{#eq:max2}
```

```
where `B, E, j: ℝ⁴ → ℝ³` – vector functions of the form
`(t,x,y,z) ↦ f(t,x,y,z), f = (f_ˈxˈ, f_ˈyˈ, f_ˈzˈ)`.
```

See eq. 2.

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

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

```
`` [⁖A] = [⁖B]ˈᵀˈ [⁖C] [⁖B] ``

`` A = BˈᵀˈC B ``
```

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

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

```
``
⌜[ x₁₁ ₒx₁₂ ₒx₁₃ ₒ… ₒx₁ₙ ¦⁖
   x₂₁ ₒx₂₂ ₒx₂₃ ₒ… ₒx₂ₙ ¦
    ⋮  ₒ ⋮  ₒ ⋮  ₒ⋱ ₒ ⋮  ¦
   xₚ₁ ₒxₚ₂ ₒxₚ₃ ₒ… ₒxₚₙ ]⌟ ``
```

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

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

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

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

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

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

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

```
`` ⌜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 ẍ + ⌜cos⌝² ẍ = 1 ``
```

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

$$U_{\delta_1 \rho_2}^{\beta_1 \alpha_2}$$

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

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

```
`` α₂³/³√{β₂² + γ₂²} ``
`` (x + y)² = ∑ₖ₌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 ``
`` ∑ⁿ_{0≤i≤N ¦␣ 0≤j≤M} (ij)² +
   ∑ⁿ_{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) = ₍ₑd²f/dx²|₍ₓ₌₀ ``
Text ‵‥(ₑa ₍b ¦⁚ᵗ c ₍dₑ)‥‵ and some more text.
```

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

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

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

---

prefix unary operator `→⌐`:

```
`` f: x →‾{‹arrow map›} ₍i x² ``
```

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

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 ``
```

$$f : x \overset{\text{‹arrow}}{\underset{i}{\longrightarrow}} \text{map›}\, x^2$$