```
See @eq:max.

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

where ˎ[⃗B], [⃗E], [⃗j]: ℝ⁴ → ℝ³ˎ − vector functions of
the form
ˎ(t,x,y,z) ↦ [⃗f](t,x,y,z), [⃗f] = (f_⌜x⌝, f_⌜y⌝, f_⌜z⌝)ˎ.
```

See eq. 1.

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

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       ˃
```

```
ˏˎˎ{#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_⌜x⌝, f_⌜y⌝, f_⌜z⌝)ˎ.
```

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 $(t, x, y, z) \mapsto \mathbf{f}(t, x, y, z), \ \mathbf{f} = (f_{\mathrm{x}}, f_{\mathrm{y}}, f_{\mathrm{z}})$.

```
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
‹[ x11 ˳x12 ˳x13 ˳… ˳x1n ¦∵
   x21 ˳x22 ˳x23 ˳… ˳x2n ¦
    ⋮  ˳ ⋮  ˳ ⋮  ˳⋱ ˳ ⋮  ¦
   xp1 ˳xp2 ˳xp3 ˳… ˳xpn ]› ˎˎ
```

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

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

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

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

ˎˎ ⌜boole⌝(x) = {∈ 1˳ ‹if ⸜x⸝ is › [ᵐTrue]  ¦
                  0˳ ‹if ⸜x⸝ is › [ᵐFalse] } ˎˎ
```

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

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

```
ˎˎ ⌜lim⌝␣x→0 ˱⌜sin⌝ x˲/x = 1ˎˎ
ˎˎ U_{δ₁ρ₂}^{β₁α₂} ˎˎ
ˎˎ √x = 1 + ˱x-1˲/ᶜ{2 + ˱x-1˲/ᶜ{2 + ˱x-1˲/ᶜ{2 + ⋱}}} ˎˎ
ˎˎ ⌜sin⌝² ẍ + ⌜cos⌝² ẍ = 1 ˎˎ
```

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

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

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

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

```
ˎˎ α₂³/³√{β₂² + γ₂²} ˎˎ
ˎˎ (x + y)² = ∑ₖ₌₀^∞ (n¦ᶜk)xⁿ⁻ᵏyᵏ ˎˎ
ˎˎ (n¦ᶜk) = ˱(n¦ːk)˲, ˱[n¦ːk]˲ ˎˎ
```

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

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

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

```
˴˴ {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 ¦␣ˡ 0≤j≤M} (ij)²   ˴˴
```

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

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

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

```
˴˴ ⌜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.
```

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

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

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

---

prefix unary operator `→⎴`:

```
ˎˎ f: x →⎴{‹arrow map›} ␣i x² ˎˎ
```

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

center binary operator `⎴`:

```
ˎˎ f: x → ⎴‹arrow map› ␣i x² ˎˎ
```

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

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

```
ˎˎ f: x →⎴‹arrow map› ␣i x² ˎˎ
```

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