```
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.

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

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

```
ˎˎ [⁖A] = [⁖B]⌜T⌝ [⁖C] [⁖B] ˎˎ

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

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

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

```
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 ˏxˎ is › [ᵐTrue]  ¦
                     0˳ ‹if ˏxˎ is › [ᵐFalse] } ˎˎ
```

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

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

```
⸌⸌ ⌜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¦ːk)⸥, ⸤[n¦ːk]⸥ ⸌⸌
```

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

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

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

```
⸌⸌ {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 `→¯`:

```
⸌⸌ f: x →¯{‹arrow map›} ␣i x² ⸌⸌
```

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

postfix unary operator `¬`:

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

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

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

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

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