```
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.

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

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      ˲
,ˎˎ{#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 ˏxˎ is › [ᵐTrue]  ¦
                   0˳ ‹if ˏxˎ is › [ᵐFalse] } ˎˎ
```

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

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

```
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¦∶k)˲, ˱[n¦∶k]˲ ˎˎ
```

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

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

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

```
`` {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 `→¬`:

```
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
```

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