See @eq:max.

```
``
 ⎡∇ × [⃗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} \longrightarrow \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 ₒ= 4π/c **j** ¦#
             ∇ · **E**\ ₒ= 4πρ        ¦
  ∇ × **E** + 1/c ∂B/∂t ₒ= **0**      ¦
             ∇ · **B**\ ₒ= 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_⌐x⌐, f_⌐y⌐, f_⌐z⌐)⌟.
```

See eq. 2. \[\begin{aligned}∇ × **B** - \frac{1}{c} \frac{∂**E**}{∂t} &= \frac{4π}{c} **j**\\ ∇ · **E**\ &= 4πρ \\ ∇ × **E** + \frac{1}{c} \frac{∂**B**}{∂t} &= **0** \\ ∇ · **B**\ &= 0 \end{aligned} ,\qquad(2)\]

where \(**B**,\,**E**,\,**j**:\,ℝ^{4} ⟶ ℝ^{3}\) – vector functions of the form \((t,x,y,z) ↦ **f**(t,x,y,z),\,**f** = (f_{\mathrm{x}}, f_{\mathrm{y}}, f_{\mathrm{z}})\)\).

```
`` [∵A] = [∵B]⌐ᵀ⌐ [∵C] [∵B] `` 

`` A = B⌐ᵀ⌐C B `` 
```

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

\[**A** = **B**^{{\mathrm{T}}}**C**\,**B** \]

```
``
⌞[ x₁₁ ₀x₁₂ ₀x₁₃ ₀· ₀x₁ₙ ¦∵
   x₂₁ ₀x₂₂ ₀x₂₃ ₀· ₀x₂ₙ ¦
    ⋮ ₀ ⋮ ₀ ⋮ ₀⋱ ₀ ⋮ ¦
   xₚ₁ ₀xₚ₂ ₀xₚ₃ ₀· ₀xₚₙ ]﹥ ``
```

\[\begin{bmatrix} x_{11} &x_{12} &x_{13} &... &x_{1n}\\ x_{21} &x_{22} &x_{23} &... &x_{2n} \\ ⋮ & ⋮ & ⋮ &⋱ & ⋮ \\ x_{p1} &x_{p2} &x_{p3} &... &x_{pn} \end{bmatrix} \]

```
    `def`B{
  ₂[ ax₀ + by₁ ┊
     ax₁ + by₂ ┊
         ⋮      ┊
     ax_{N-1} + by_{N-1} ]
  }┊
  `B = a[⃗x] + b[⃗y]
```

$$\def\B{ \begin{bmatrix} ax_{0} + by_{1}\\ ax_{1} + by_{2} \\ \vdots \\ ax_{N-1} + by_{N-1} \end{bmatrix} }\\ \B = a{\mathbf{x}} + b{\mathbf{y}}$$

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

  ⌈boole⌉(x) = {∈ 1ₒ ‹if ₓxₓ is › [ᵐTrue]  ┊
                   0ₒ ‹if ₓxₓ is › [ᵐFalse] }
```

$$\left\vert{x}\right\vert = \begin{cases} x& {\text{if}} x≥0 \\ -x& {\text{if}} x<0 \end{cases}$$

$$ {\mathrm{boole}}(x) = \begin{cases} 1& {\text{if x is }} {\class{MJX-Monospace}{\mathtt{True}}} \\ 0& {\text{if x is }} {\class{MJX-Monospace}{\mathtt{False}}} \end{cases}$$

```
  ⌈lim⌉_x→0 ₂⌈sin⌉ xₓ/x = 1
  U_{δ₁ρ₂}^{β₁α₂}
  √x = 1 + ₓx-1ₓ/ᶜ{2 + ₓx-1ₓ/ᶜ{2 + ₓx-1ₓ/ᶜ{2 + ⋱}}}
  ⌈sin⌉² ẍ  + ⌈cos⌉² ẍ  = 1
```

$$ \underset{x\to0}{{\mathrm{lim}}} \frac{{{\mathrm{sin}}\,x}}{x} = 1$$ $$ U_{\delta\_{1}\rho\_{2}}^{\beta\_{1}\alpha\_{2}} $$ $$ \sqrt[]{x} = 1 + \cfrac{{x-1}}{{2 + \cfrac{{x-1}}{{2 + \cfrac{{x-1}}{{2 + \ddots}}}}}} $$ $$ {\mathrm{sin}}^{2} \ddot{x} + {\mathrm{cos}}^{2} \ddot{x} = 1 $$

```
·、 α₂³/³√{β₂² + γ₂²} ·、
·、 (x + y)² = ∑ₖ₌₀^∞ (n¦ck)xⁿ⁻ᵏyᵏ ·、
·、 (n¦ck) = �“(n¦:k)”, ⸢[n¦:k]⸥ ·、
```

$$ \frac{\alpha_{2}^{3}}{\sqrt[3]{{\beta_{2}^{2} + \gamma_{2}^{2}}}} $$ $$ (x + y)^{2} = \sum_{k=0}^\infty \binom{n}{k}x^{n-k}y^{k} $$ $$ \binom{n}{k} = \genfrac{(}{)}{0pt}{}{n}{k}, \quad \genfrac{[}{]}{0pt}{}{n}{k}$$

```
·、 {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  ·、
```

$$\overset{{k \text{times}}}{\overbrace{{x + ... + x}}}$$ $$ \frac{\pi d^{2}}{4} \frac{1}{\left({A+B}\right)^{2}} = \frac{\pi d^{2}}{4\vphantom{{\left({A}\right)^{2}}}} \frac{1}{\left({A+B}\right)^{2}} $$ $$ \sum^{n}_{\substack{0\le i\le N\\0\le j\le M}} (ij)^{2} + \sum^{n}_{\begin{subarray}{l}i\in A\\0\le j\le M\end{subarray}} (ij)^{2} $$

```
·、 ʹerfʹ(x) = 1/√π ∫₋ₓˣ e^{-t²} dt ·、
·、 f⁽²⁾(0) = fʹʹ(0) = ₒ⸢d²f/dx²|ₒₓ₌₀ ·、
```

```
    Text ˎₒₒ(˷a ₒb ¦⠶ᵗ c ₒd˵)ₒₒˎ and some more text.
```

\[{\mathrm{erf}}(x) = \frac{1}{\sqrt[]{π}} \int_{-x}^{x} e^{-t^{2}} dt \] \[f^{(2)}(0) = f''(0) = \left.{\frac{d^{2}f}{dx^{2}}}\right\vert_{x=0} \] Text \(\bigl(\begin{smallmatrix}a &b\\c &d\end{smallmatrix}\bigr)\) and some more text.

---

prefix unary operator →⌐ :

```
   ˎˎ f: x →⌐{‹arrow map›} ₋i x²  ˎˎ
```

\[f: x \underset{i}{\xrightarrow{{{\text{arrow map}}}}} x^{2} \] center binary operator ⌐ :

```
   ˎˎ f: x → ⌐‹arrow map› ₋i x²  ˎˎ
```

\[f: x \underset{i}{\overset{{\text{arrow map}}}{→}} x^{2} \] bug because styles also implemented as prefix unary operators (but by design styles should have priority!):

```
   ˎˎ f: x →⌐‹arrow map› ₋i x²  ˎˎ
```

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