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Joint Research of Optics and Fluid Interface

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Subject Index xxxx, xxx

1 Regarding Special Relativity

So first let the real velocity $v_{リ}$, whom maintains the linear properties of traditional non-relativistic velocity.

Linear to non-linear (relativistic) velocity:

$$v_S = \frac{v_{リ}\, エ_S\, リ}{エ_S S} = v_{リ}\, エ_S\, リ \tag{1}$$

1.1 Constant force/acceleration

Let a point located at origin, with initial velocity $v(0) = 0$.

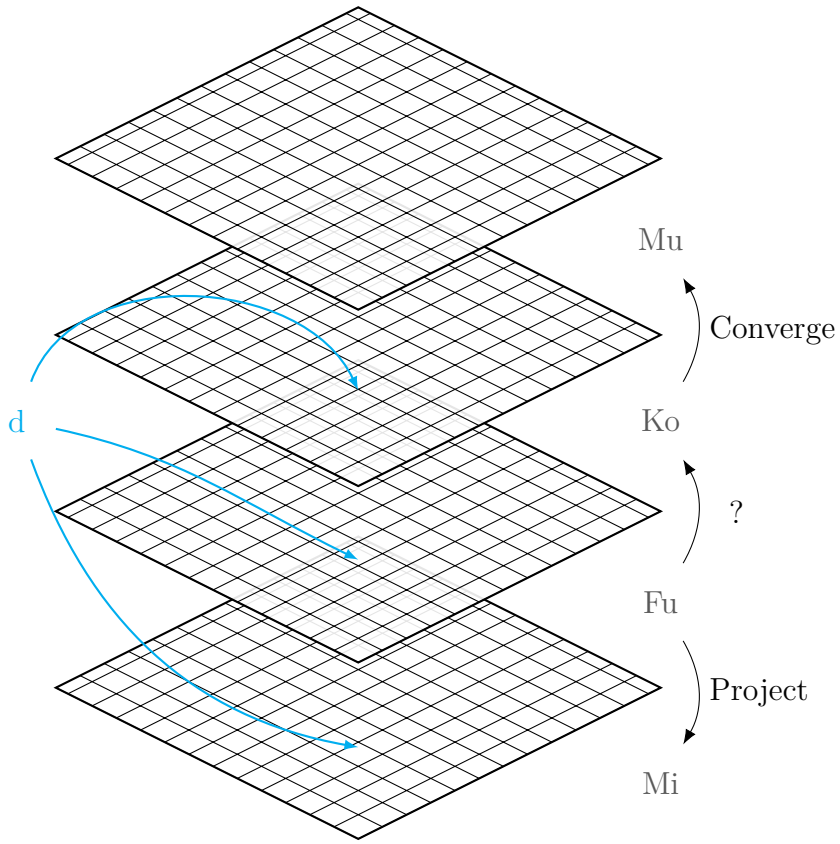
$$a_{ヒ}(v, F, m_{rest}) = \frac{F}{m_{rest}}\sqrt{1 - \frac{v^2}{c^2}}^3 \tag{2a}$$

$$a_{リ}(t) = k \tag{2b}$$

$$v_{ヒ}(t) = v_{リ}\, エ_S\, リ = kt エ_S\, リ \tag{2c}$$

$$v_{ヒ}(t) = \int \frac{F}{m_{rest}}\sqrt{1 - \frac{v_{ヒ}(t)^2}{c^2}}^3 \tag{2d}$$

2 Model of Particles



3 Conclusion

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Acknowledgment

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References

[1] https://www.mail-archive.com/dou-geometry@googlegroups.com/msg00004/____________-_____________
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