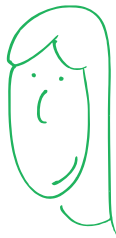


Fun with Dick and Jane at relativistic velocities



Nadine Alhazen & Giovanna Bigollo

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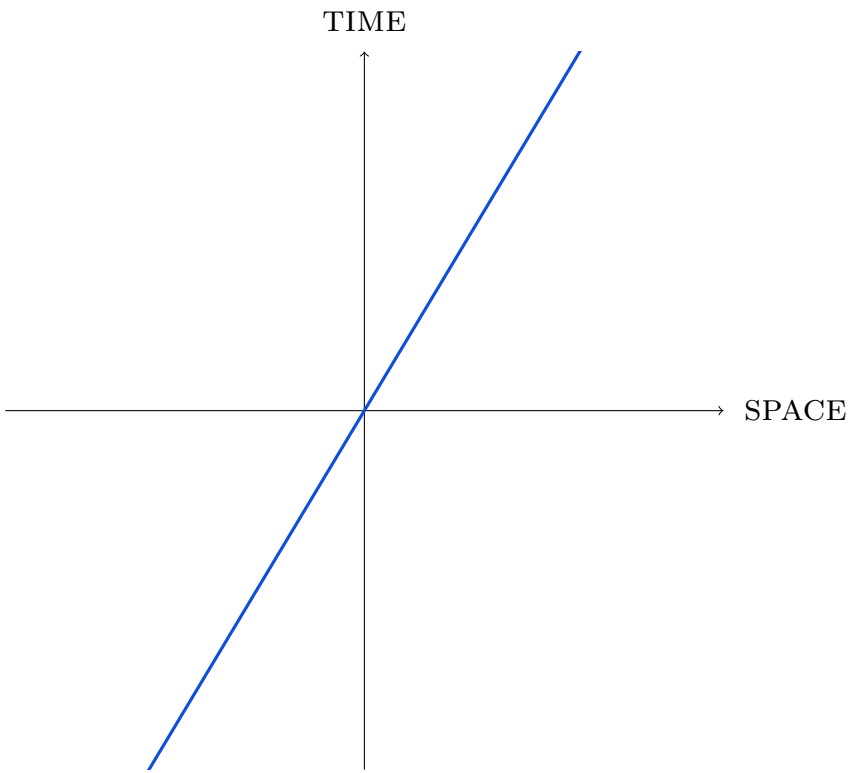
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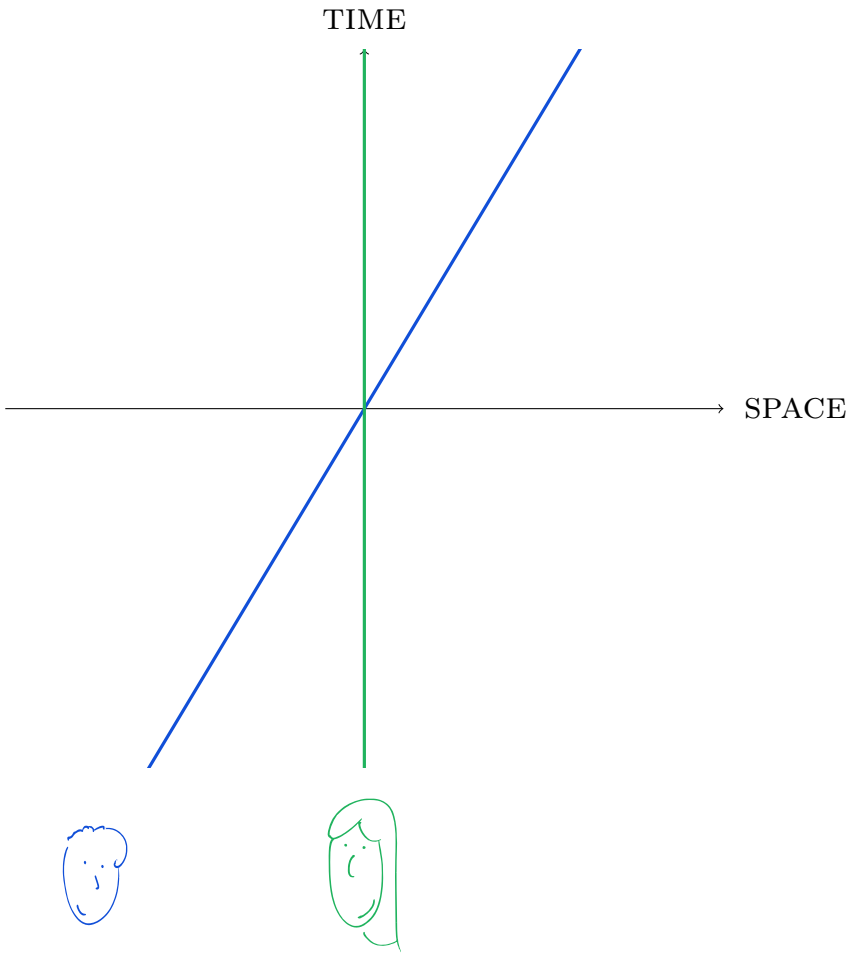
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*For Arjun and Shalom,
on their first birthday.*

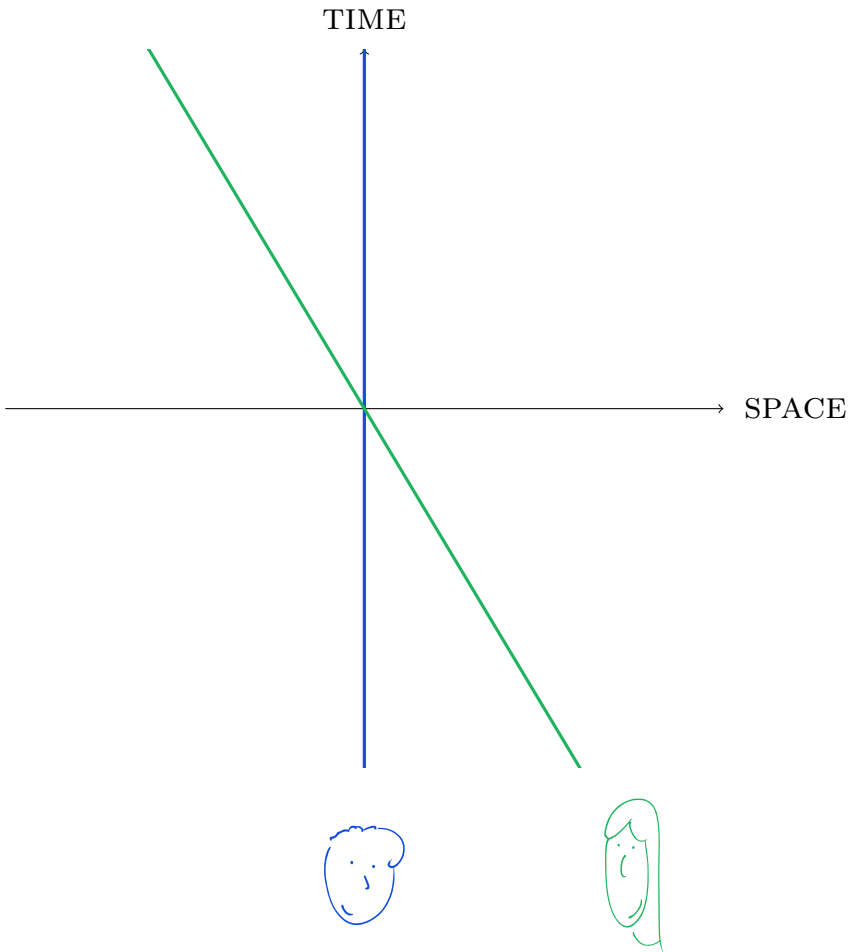


Go, **Dick**, go!

Go, go, go!

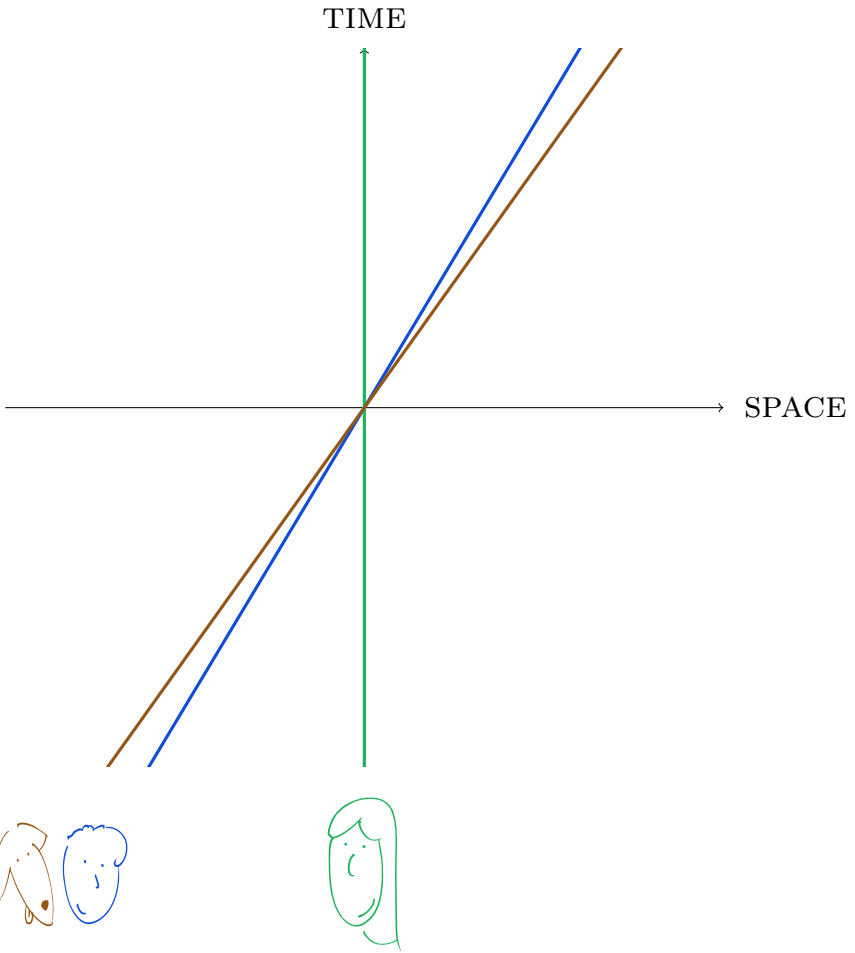


Jane sees Dick go.

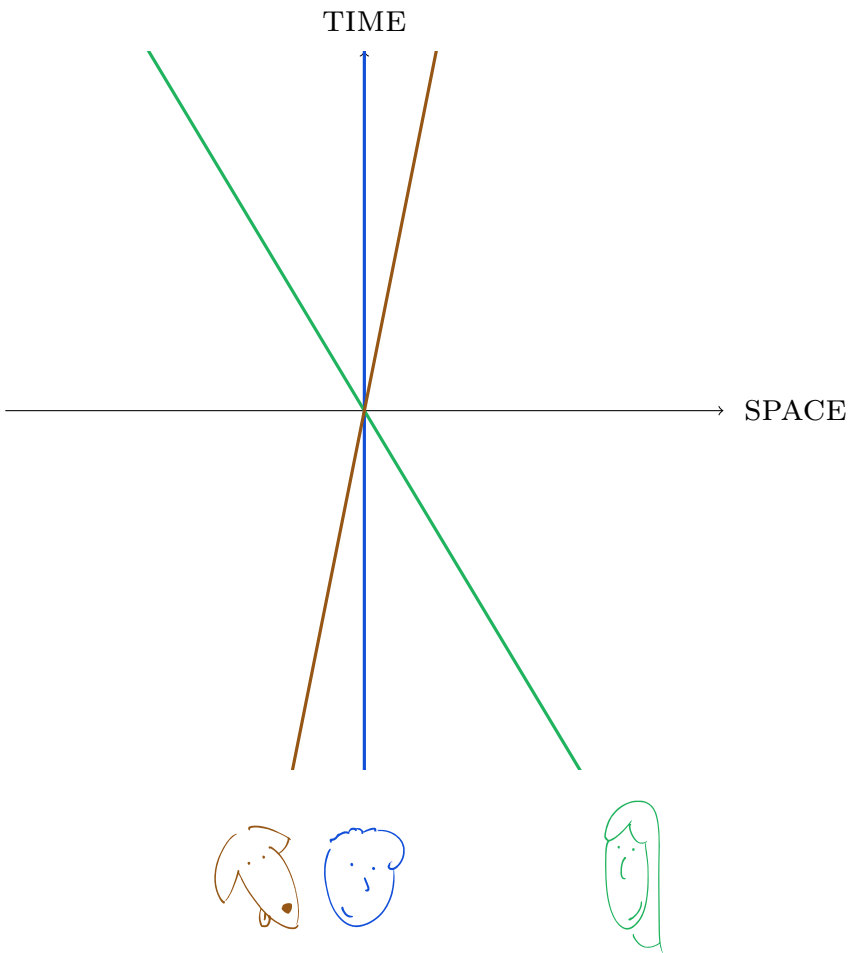


Dick sees Jane go.

Go, Jane, go!

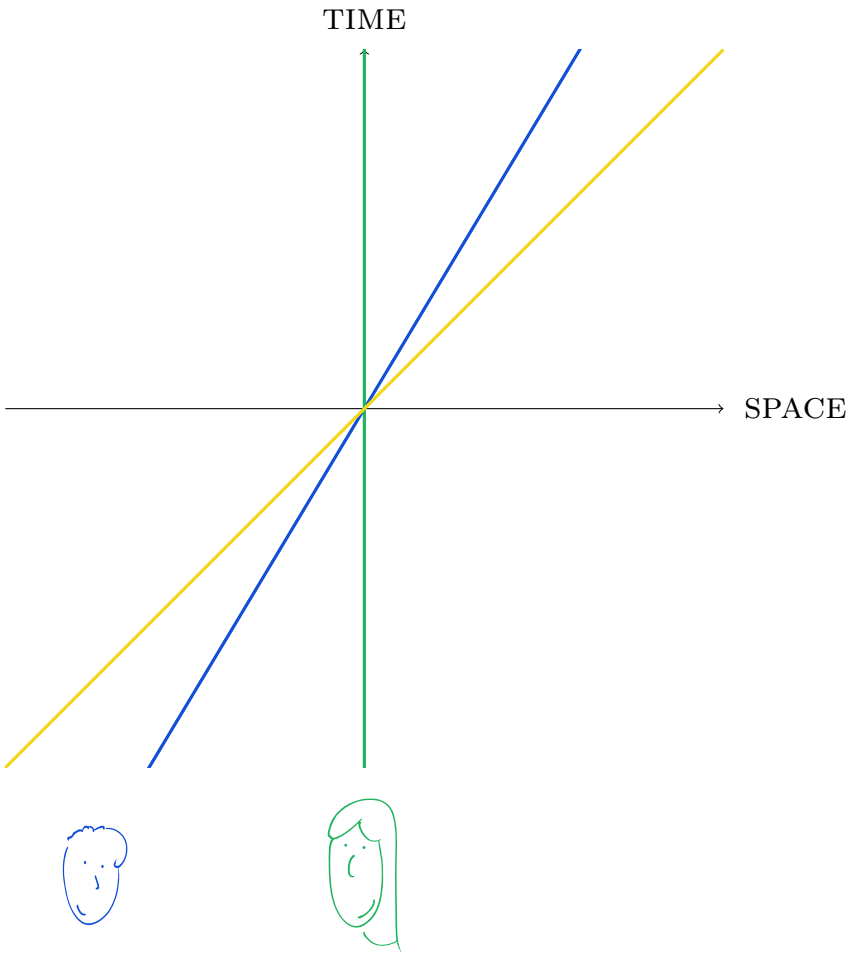


Jane sees Spot go fast.

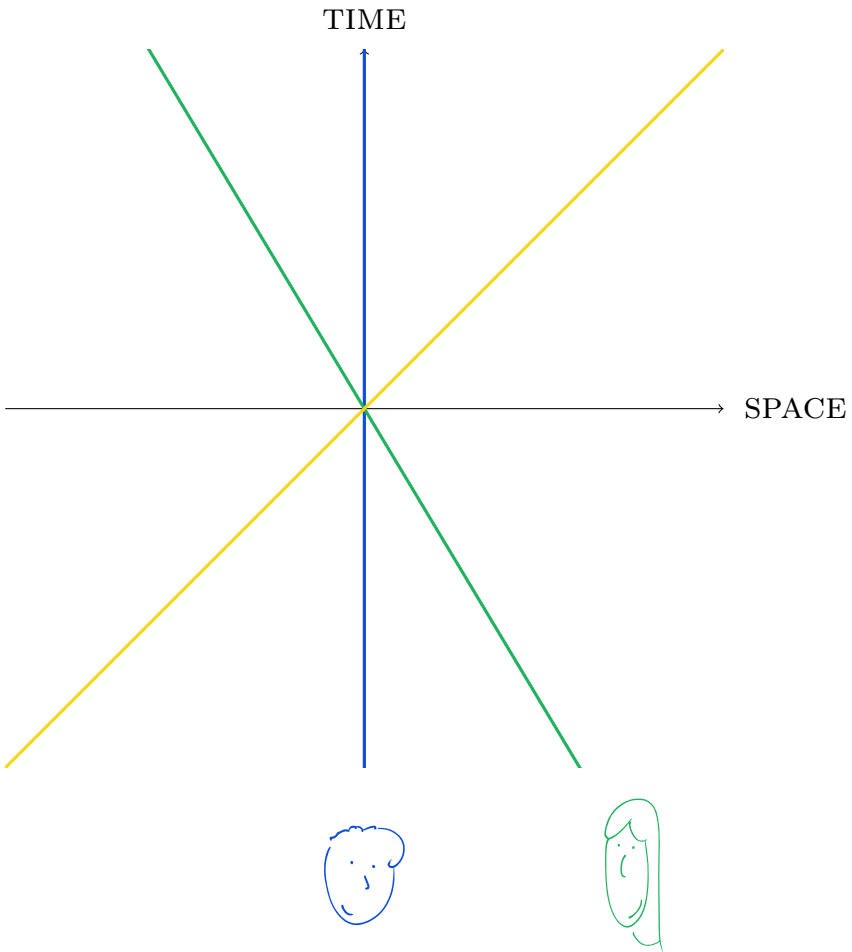


Dick sees Spot go slow.

Go, Spot, go!

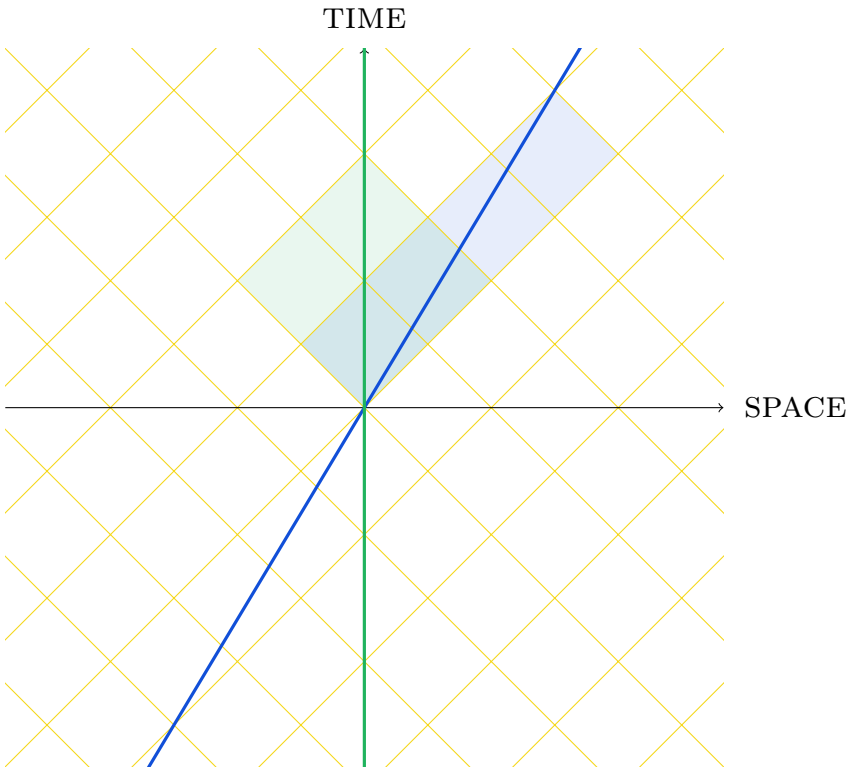


Jane sees light go.

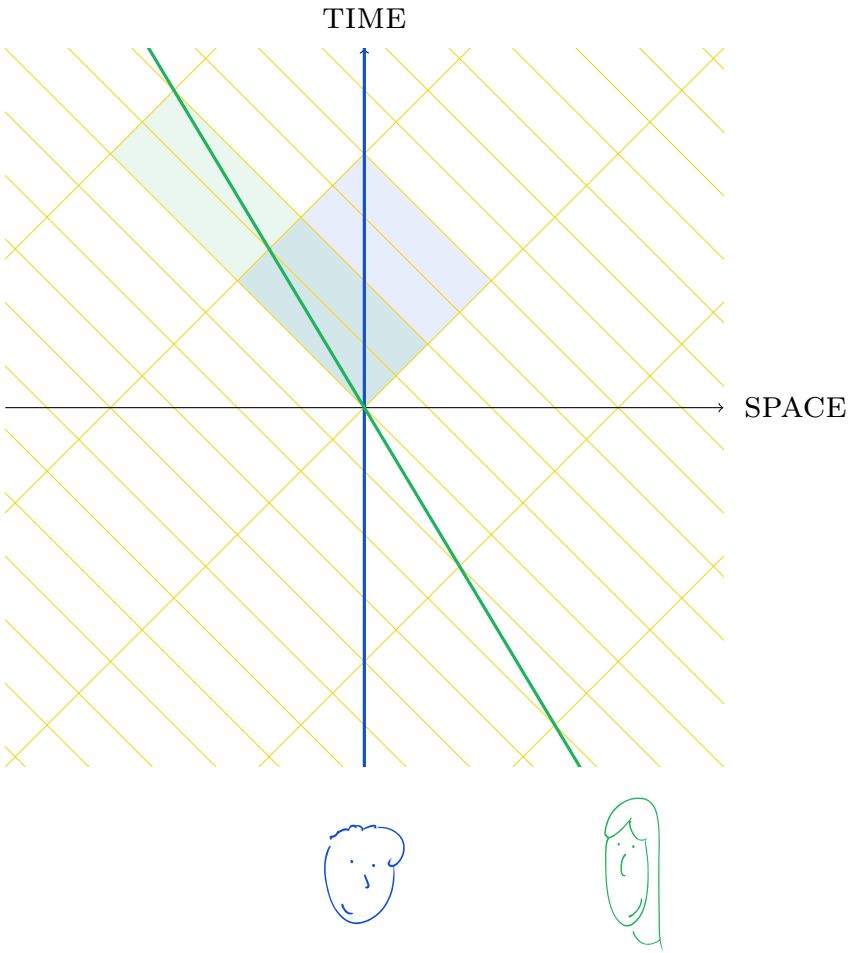


Dick sees light go.

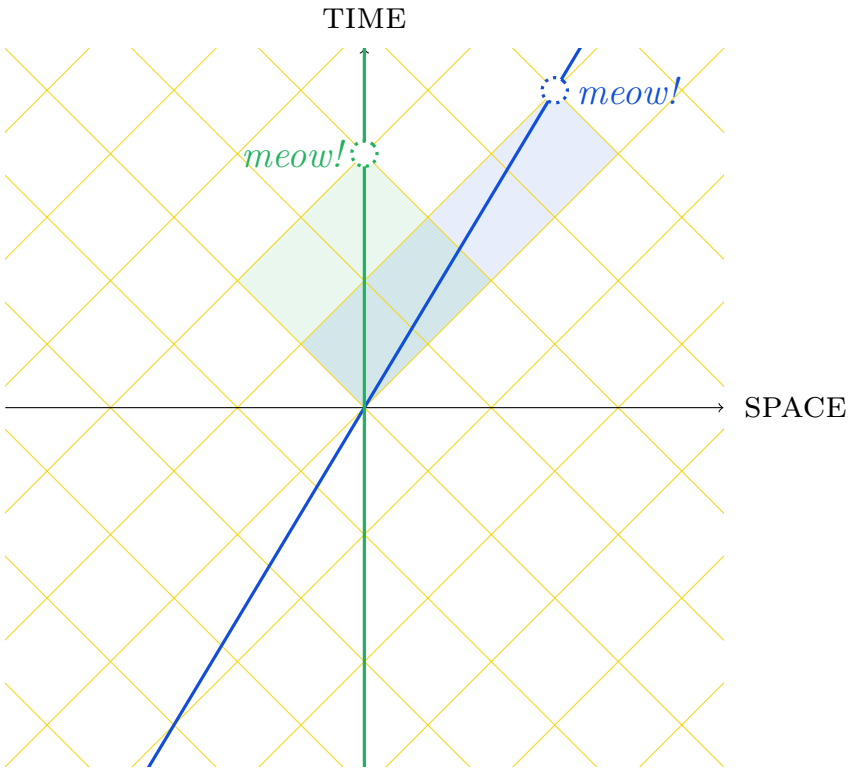
Jane and Dick see light go at the same speed!



Jane sees light go left and right.

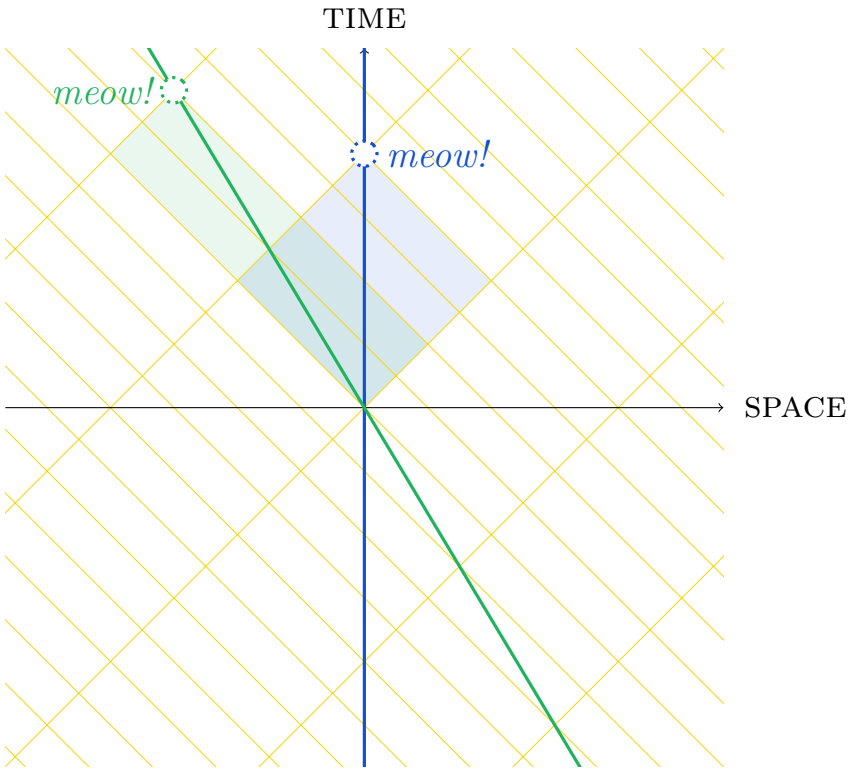


Dick sees light go left and right.

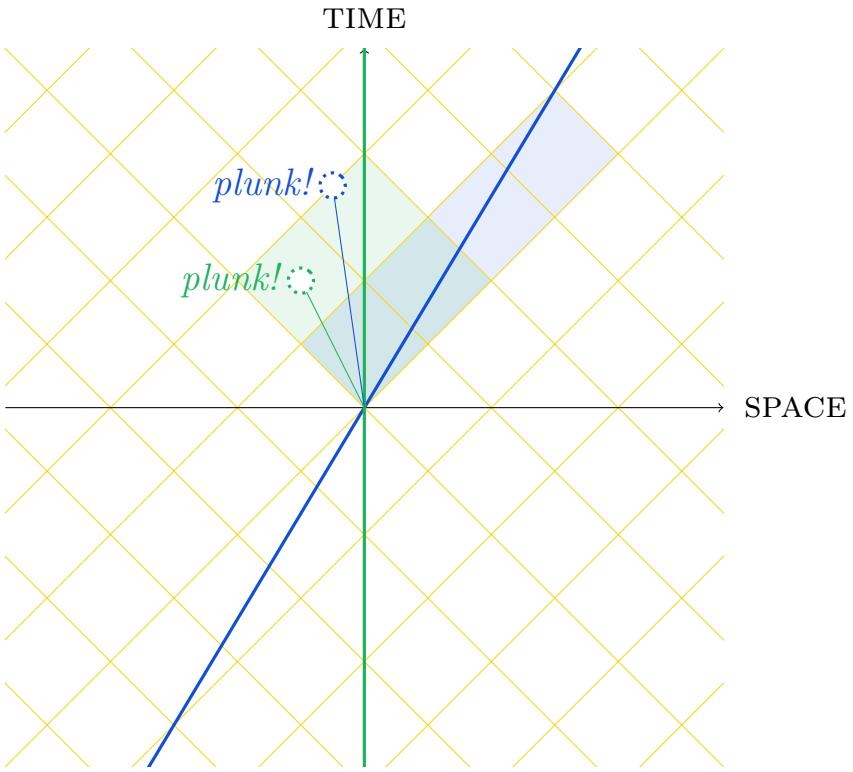


Jane and Dick play with cats.

Jane says her cat meows first.

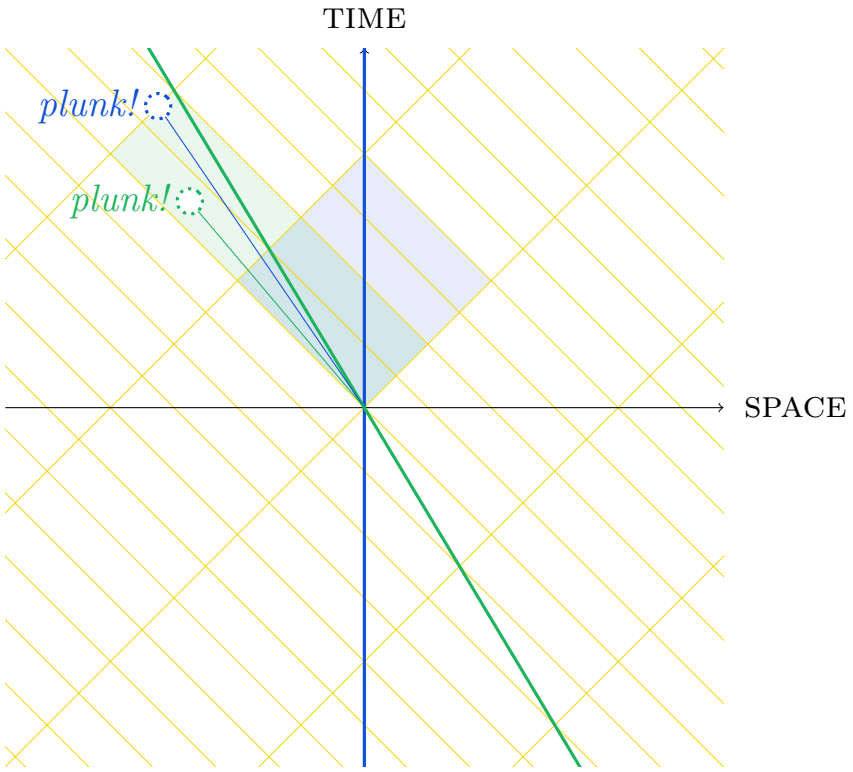


Dick says his cat meows first.

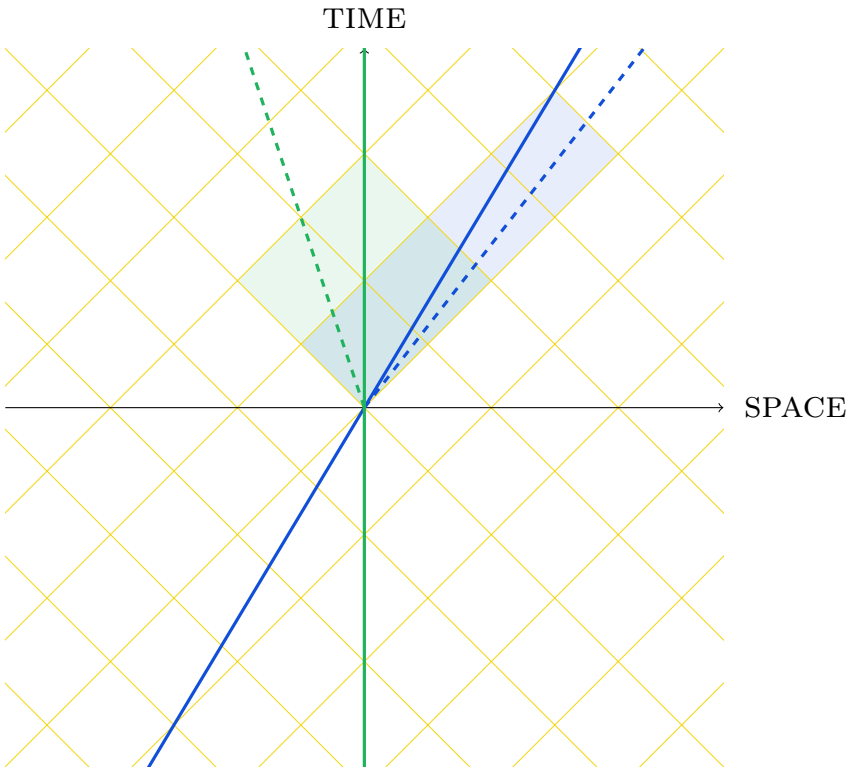


Jane and Dick throw balls.

Jane says her ball goes farther.

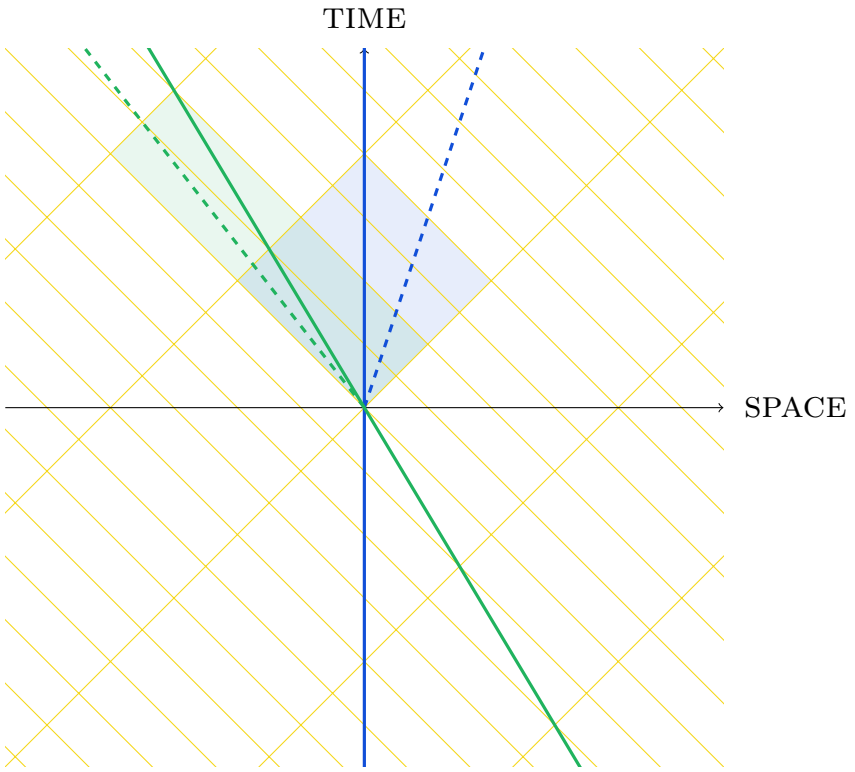


Dick says his ball goes farther.

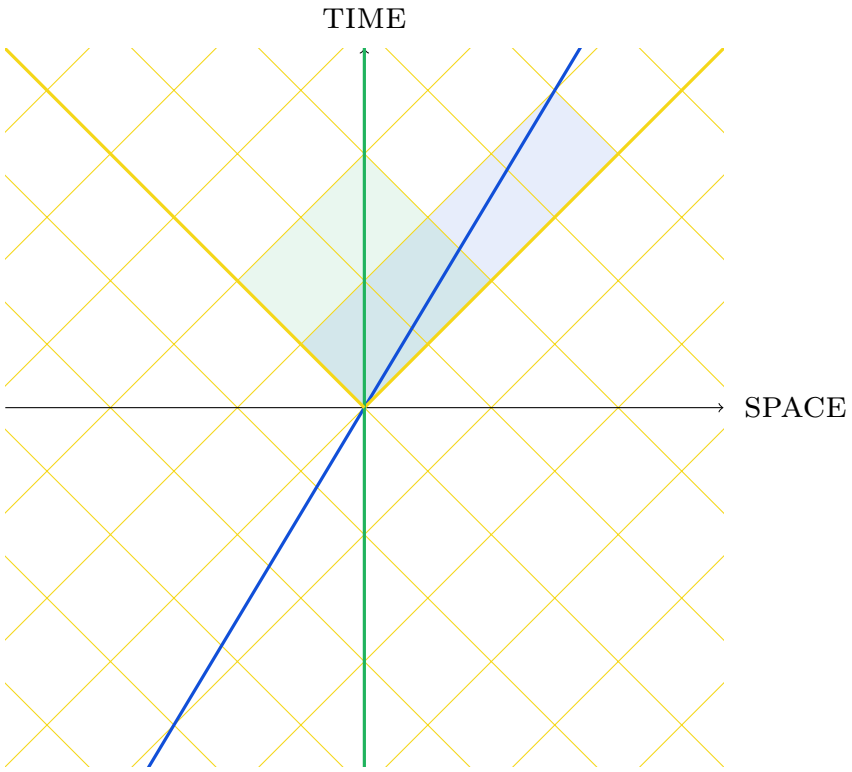


Jane and Dick sail boats.

Jane says Dick's boat is faster.

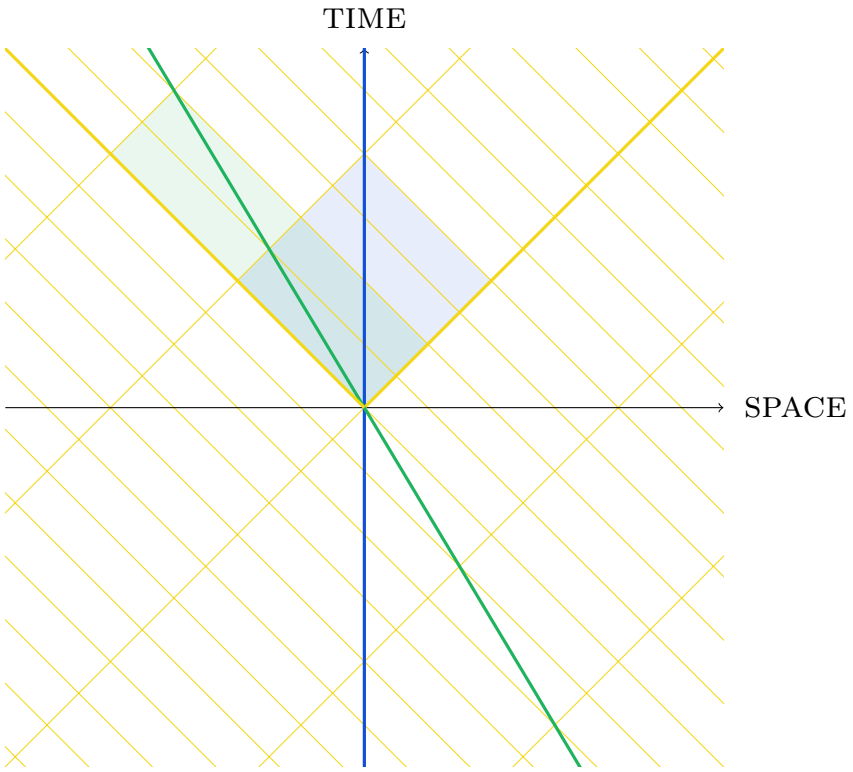


Dick says Jane's boat is faster.



Jane and Dick shine lights.

Jane says their lights go at the same speed.



Dick also says their **lights** go at the same speed!

About the authors

Writer **Nadine Alhazen** is an assistant professor of physics at the Massachusetts Institute of Nephology, where she studies topological order in condensed matter systems. When she is not hard at work, she can often be found in or around the Atlantic ocean.

Illustrator **Giovanna Bigollo** is a professor of mathematical archaeology at the Scuola Singolare Superiore di Pisa. She has done research in many branches of mathematics, from arithmetic combinatorics to quantum topology. Her hobbies include baking, bricolage, and spoiling her grandchildren.