

Railway Timetables

An introduction

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A few words about me....



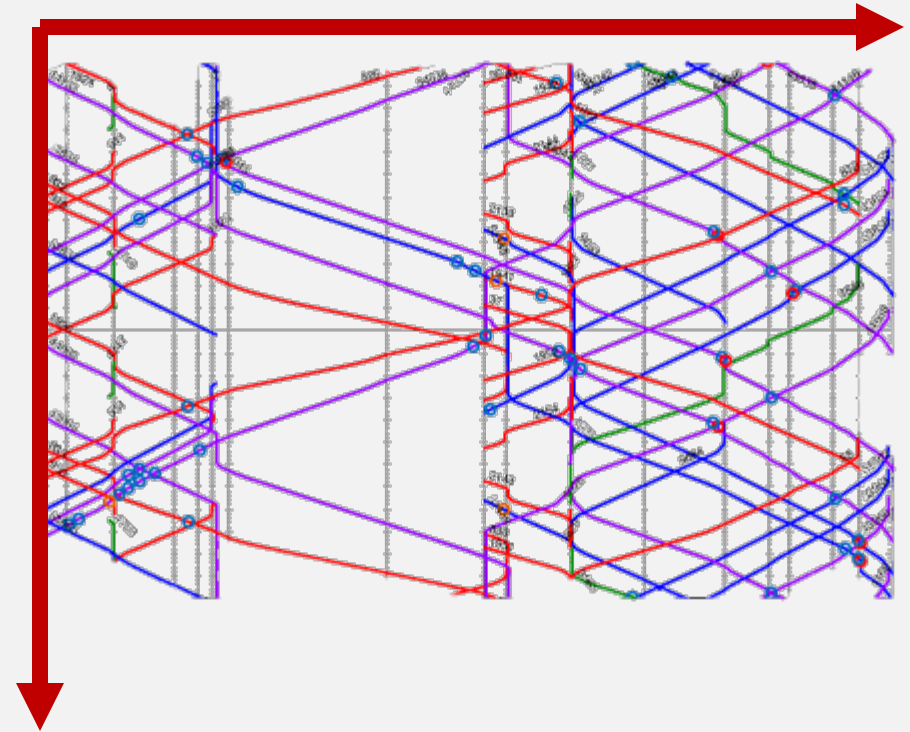
- I graduated as a Civil Engineer (MSc.) from the University of Hannover in Germany and in 2007 I got a Master Executive MBA degree from the Athens University of Economics & Business.
- I have been working for 30 years at the Greek Railways Organization, having for 8 years Director position. From 2006-2013 I was the Head of the Railway Systems Directorate.
- Currently I am working as Senior Railway Expert at the Ministry of Transport and Communications in Oman.

Introduction

- What is a timetable?
- How is the circulation of trains planned and graphically presented?
- This presentation is for beginners to understand the principles of planning train movements.



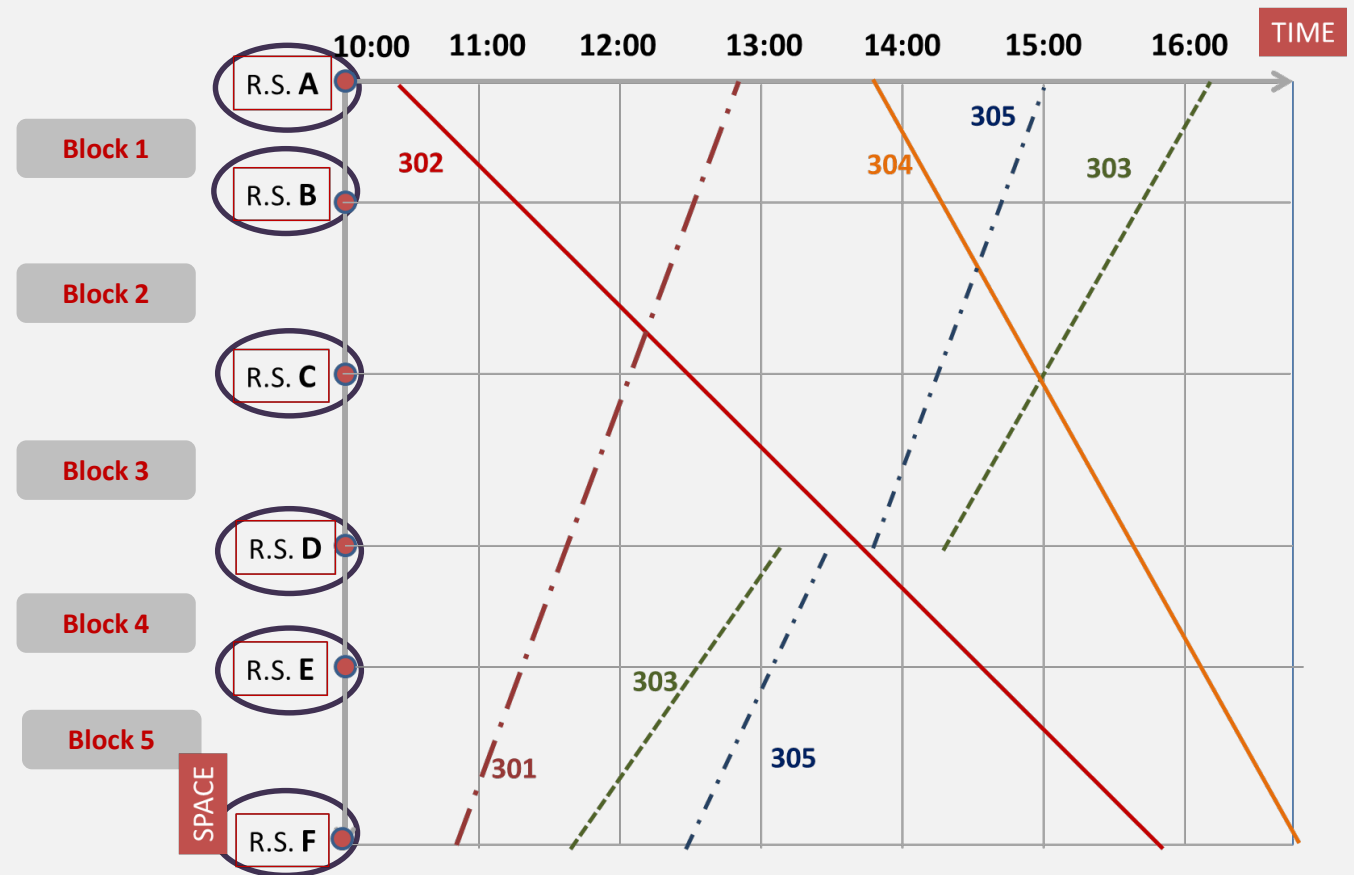
- The timetable is a graph, providing a visual representation of the planned movement of trains on certain railway routes.
- Traditionally, planners use for constructing the timetables, the so-called **time-space diagram** that graphically represents the train movements.
- One axis displays time, and the other axis depicts space.
- Each line in the time-space diagram represents a train, which is indicated by the number next to the line.



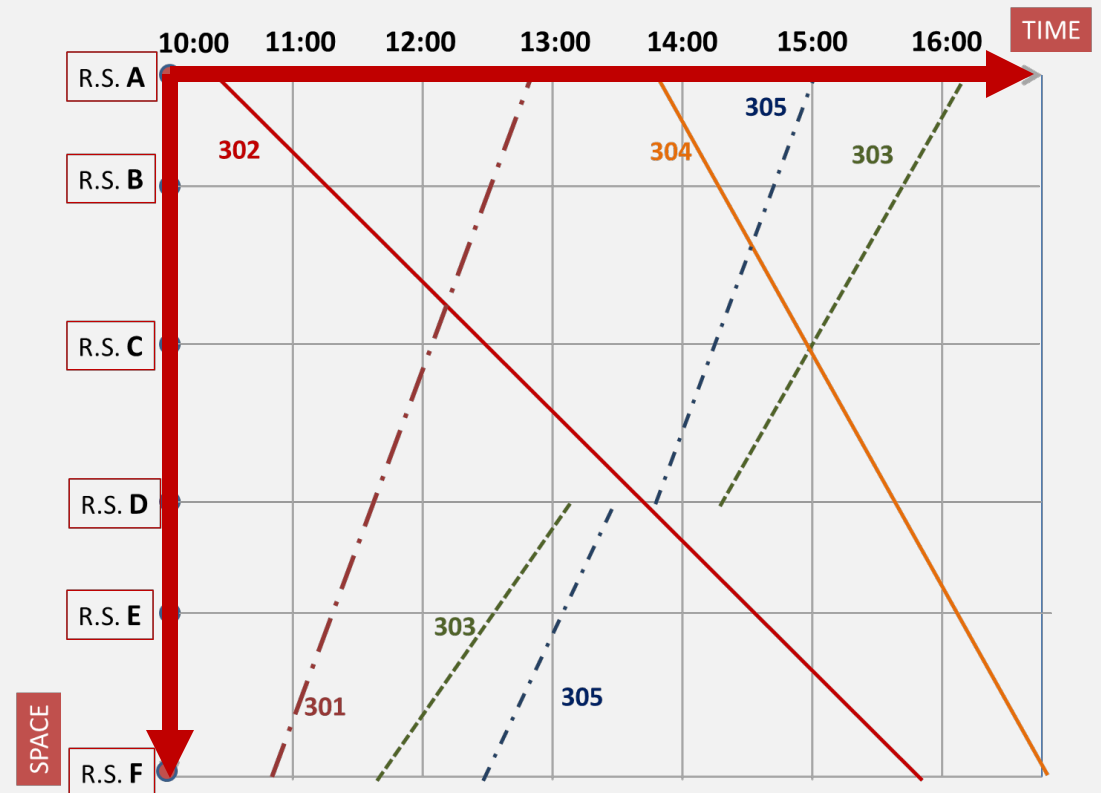
Example

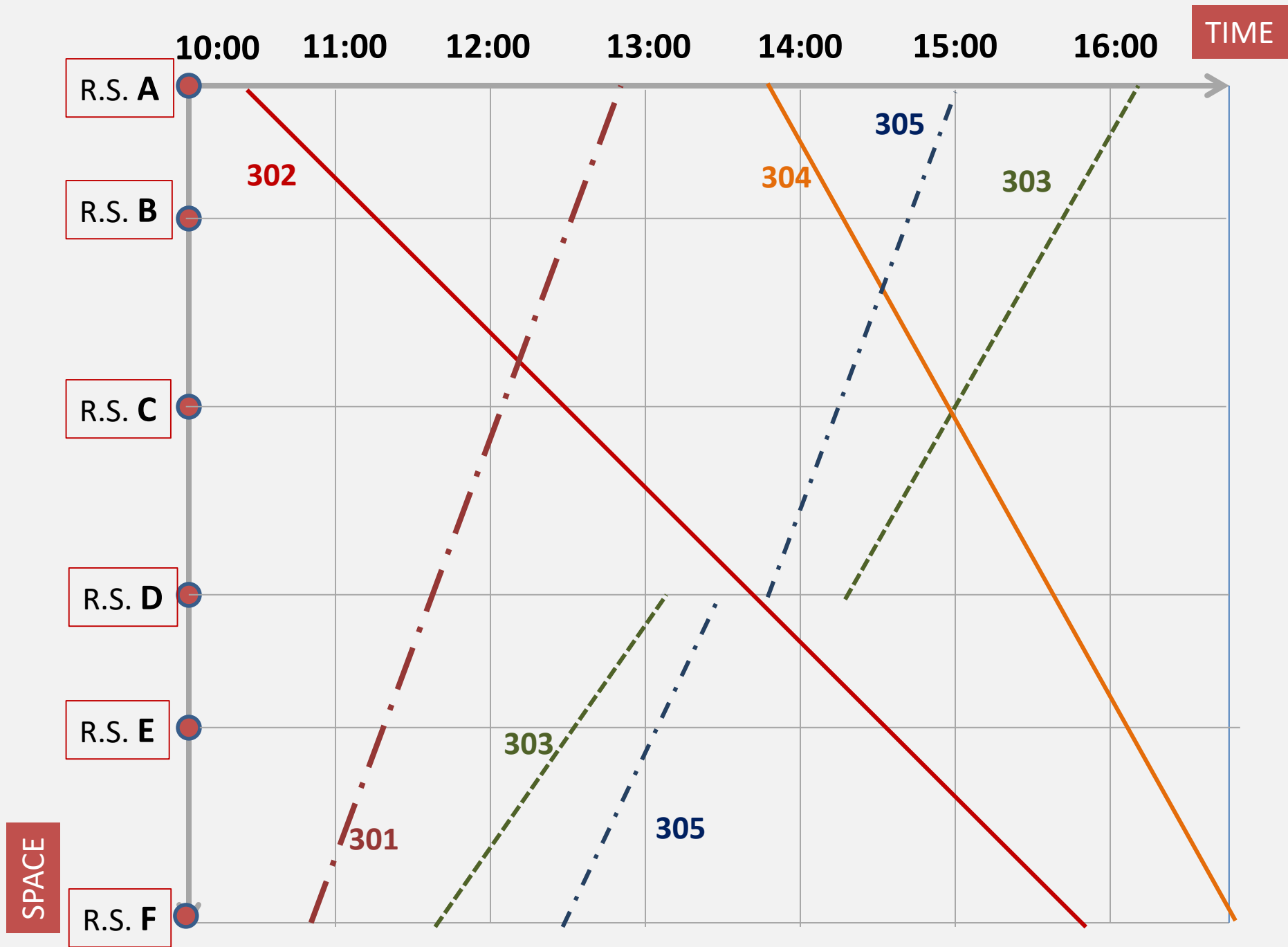
The time-space diagram is explained in the following example:

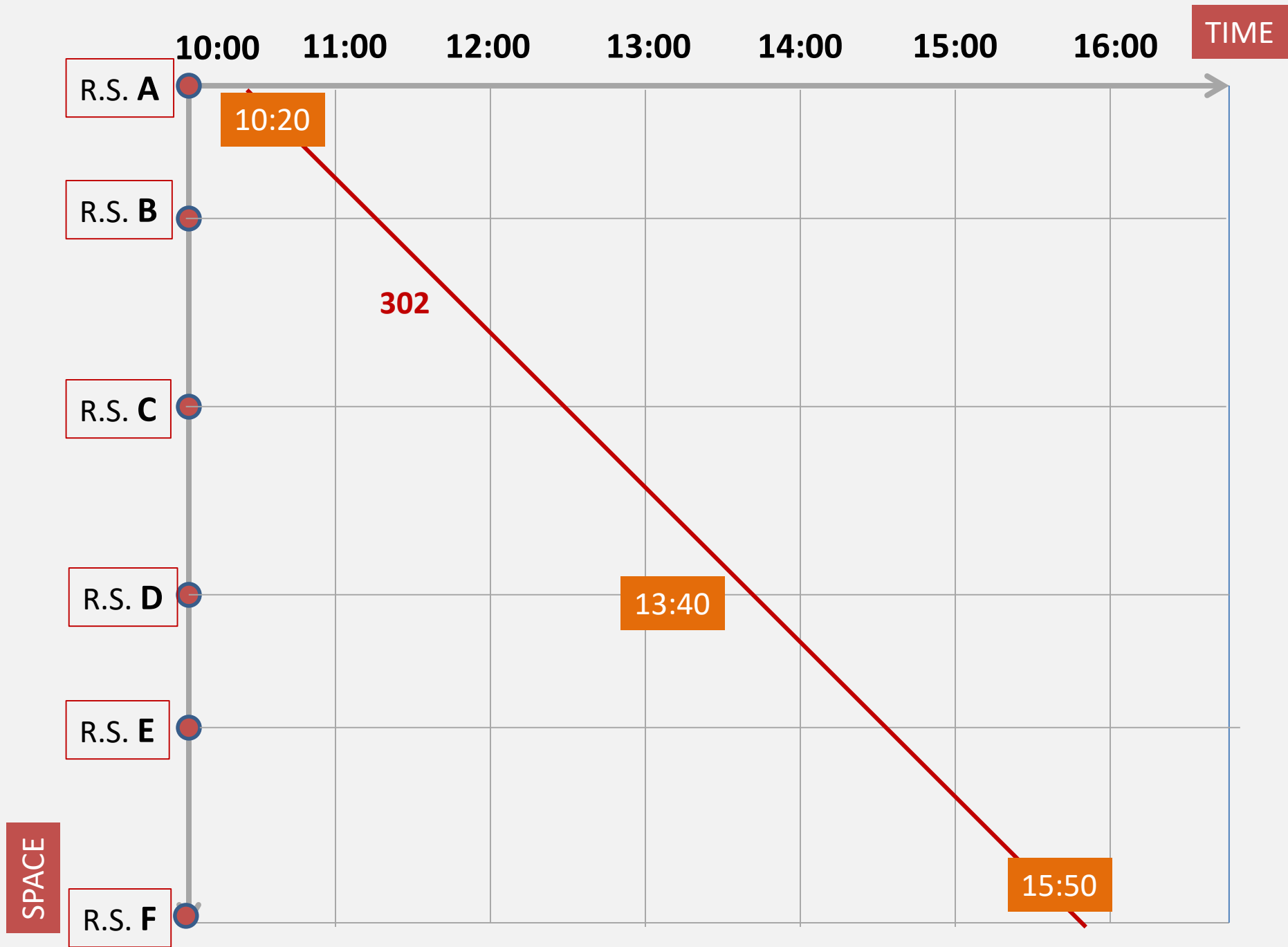
- The graph is presenting a line section with
 - 6 Railway Stations (R.S.) and
 - 5 blocks (in this example sections between the stations)

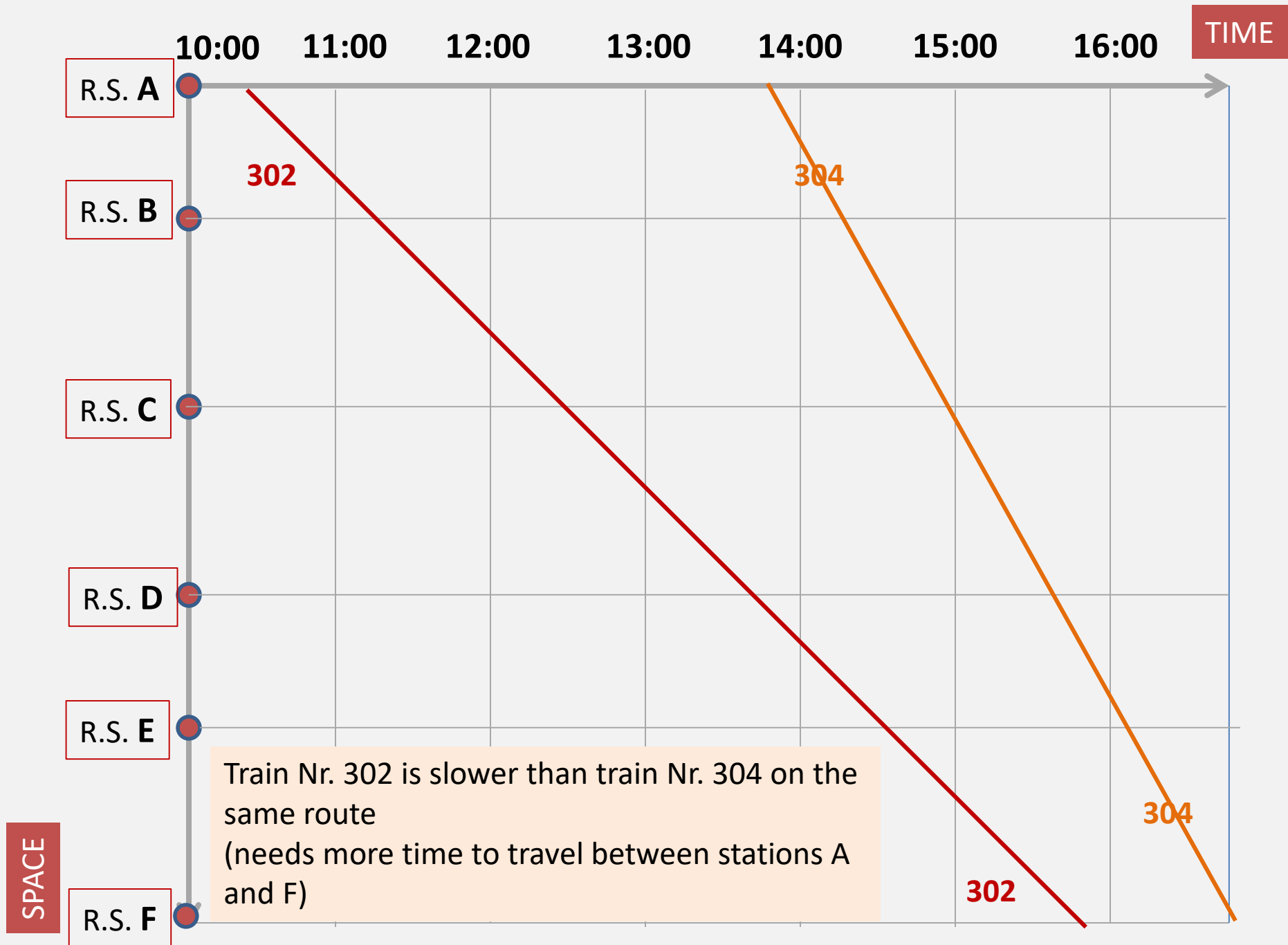


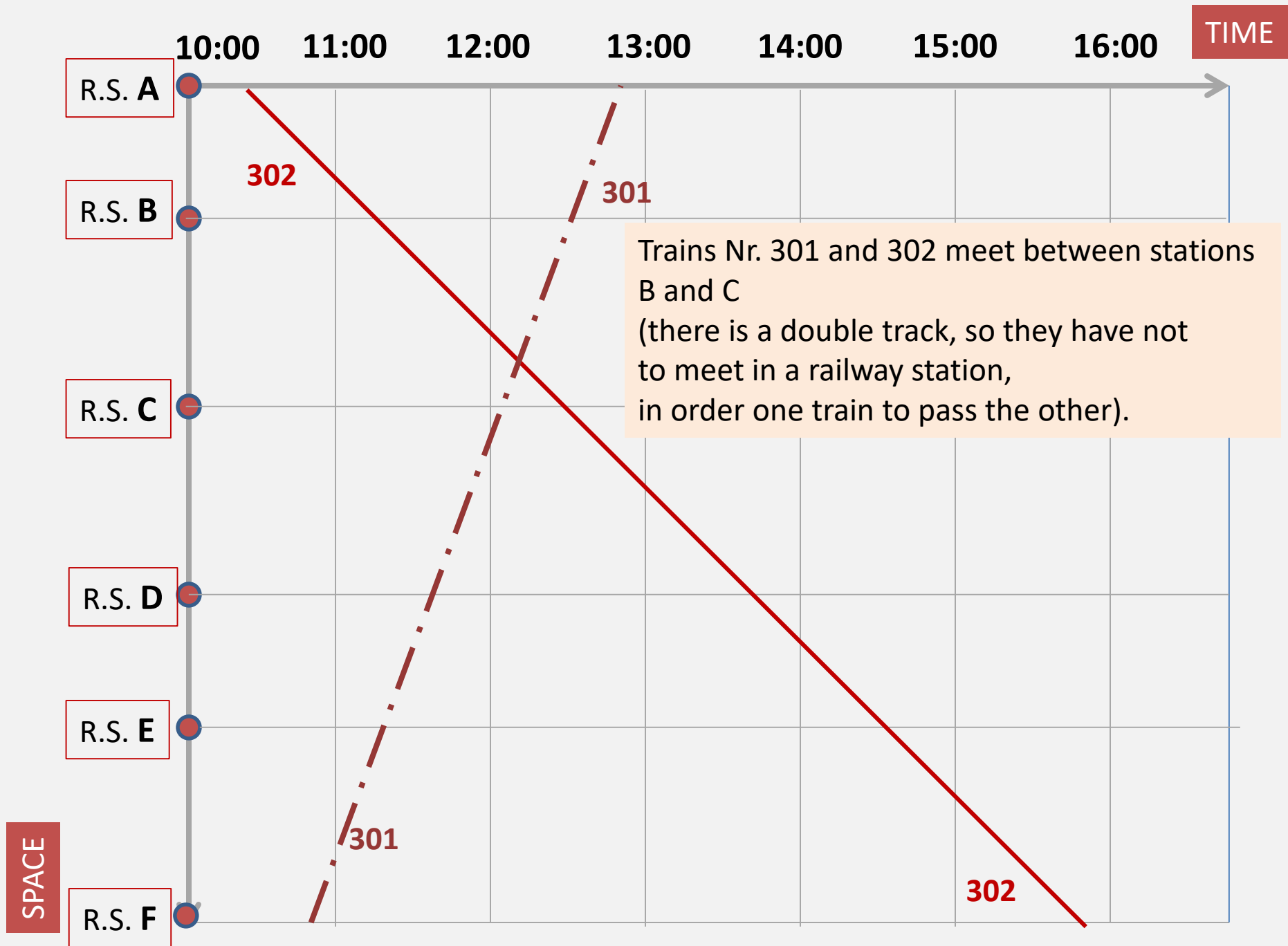
- The railway stations are presented in the vertical axis (the distance between them corresponds to their real kilometre distance).
- The horizontal axis gives the time period (here from 10:00 to 16:00).
- Sections A-B, B-C, C-D, D-F, E-F and F-G

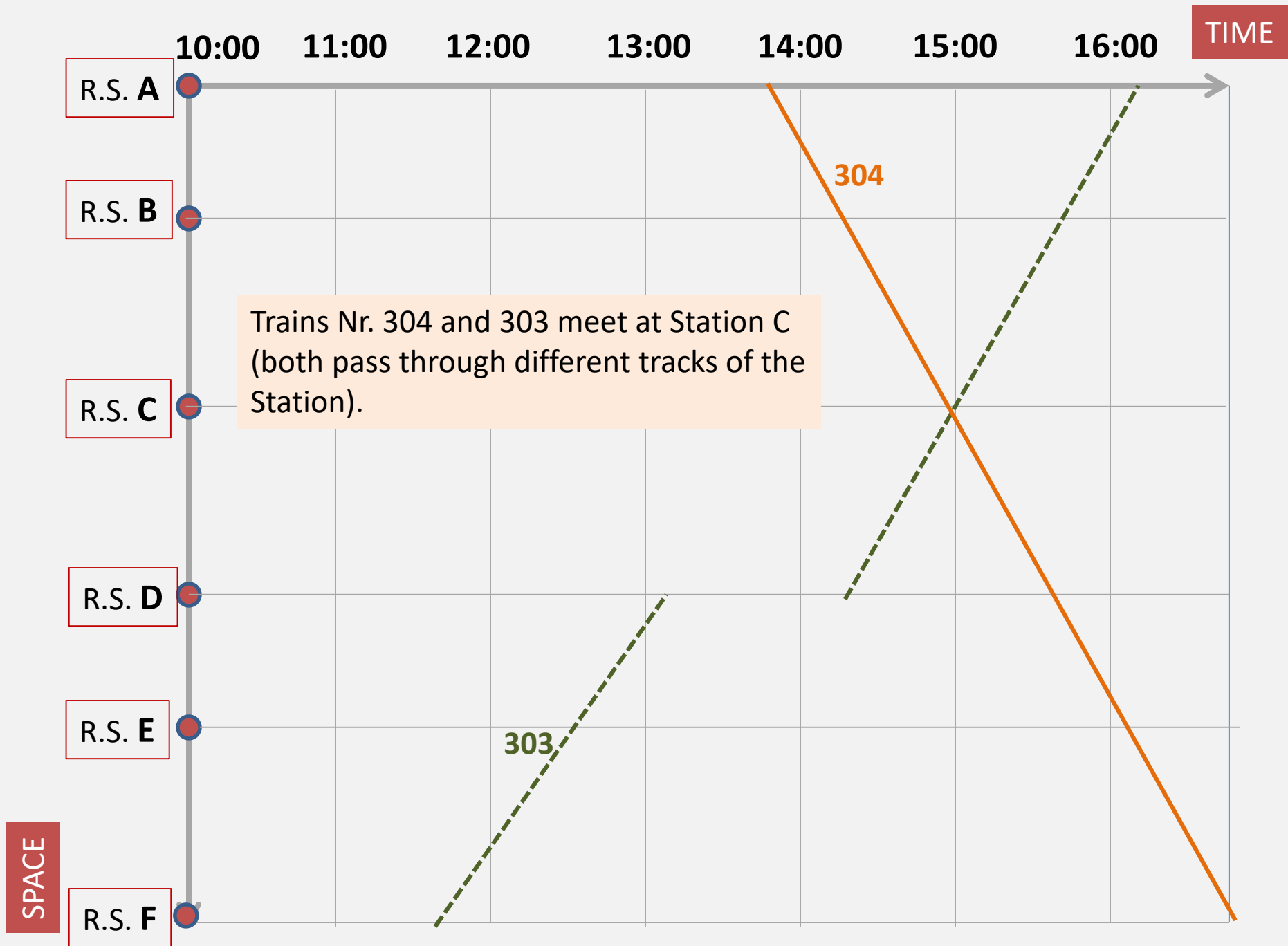


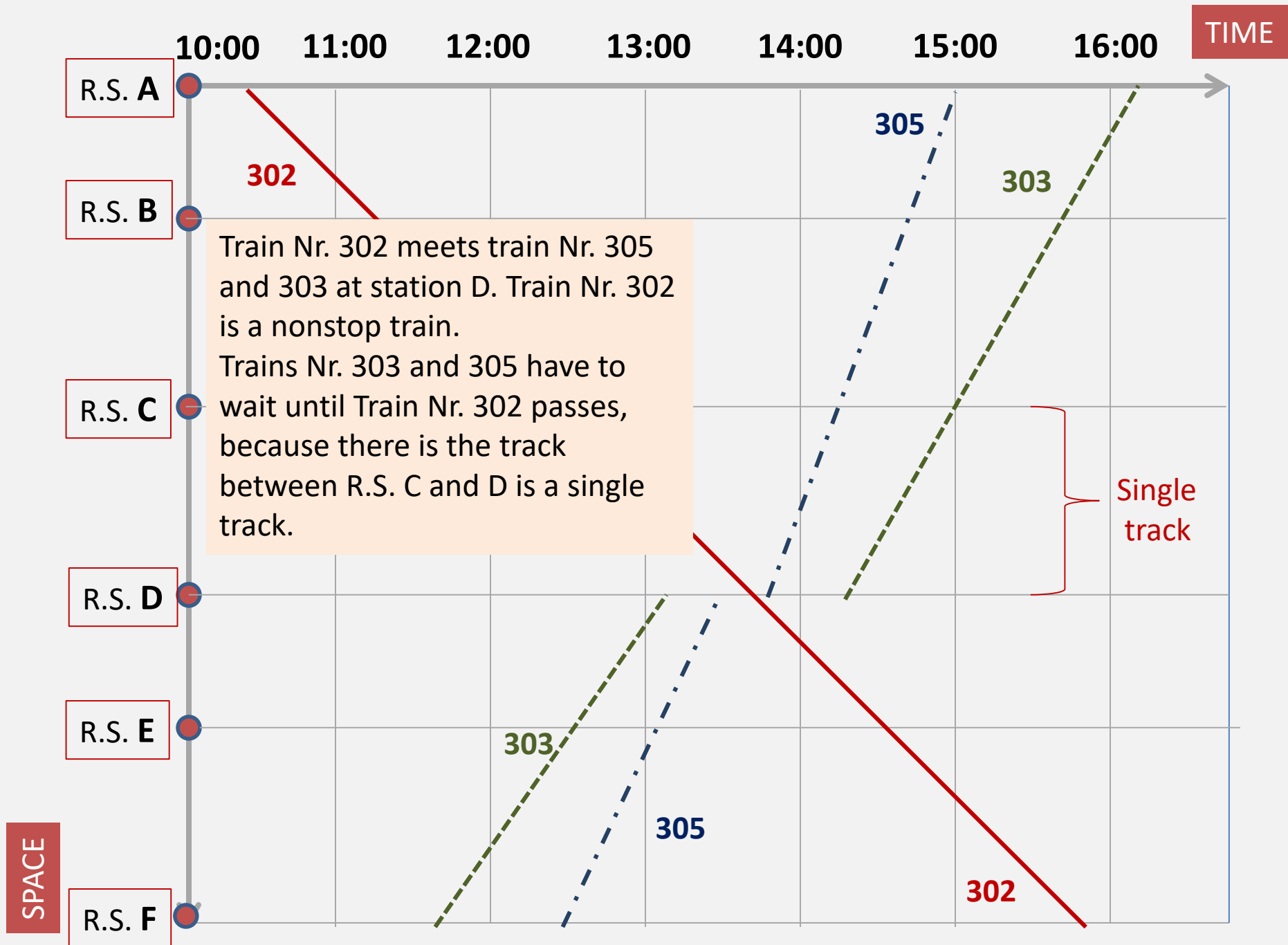


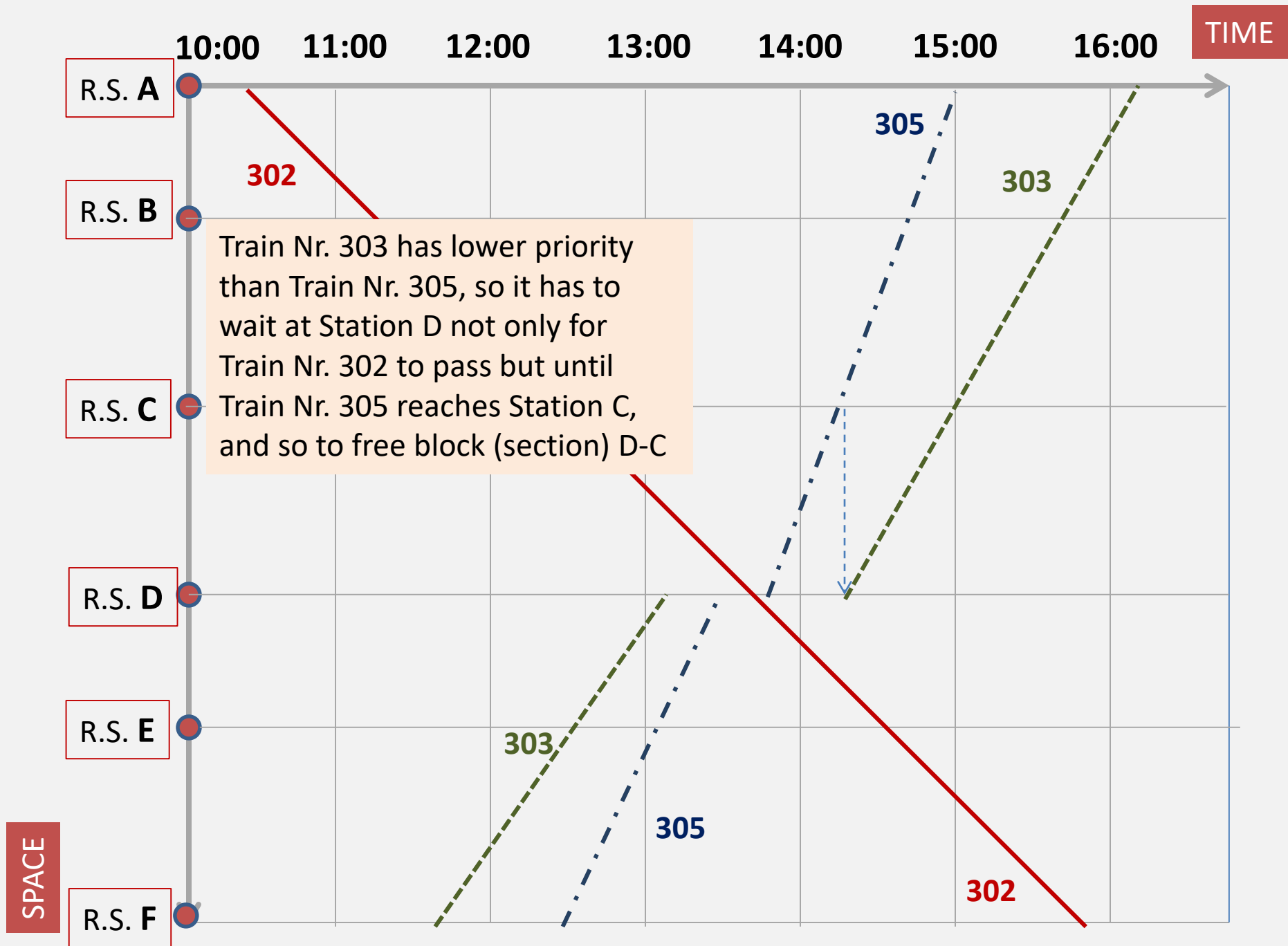


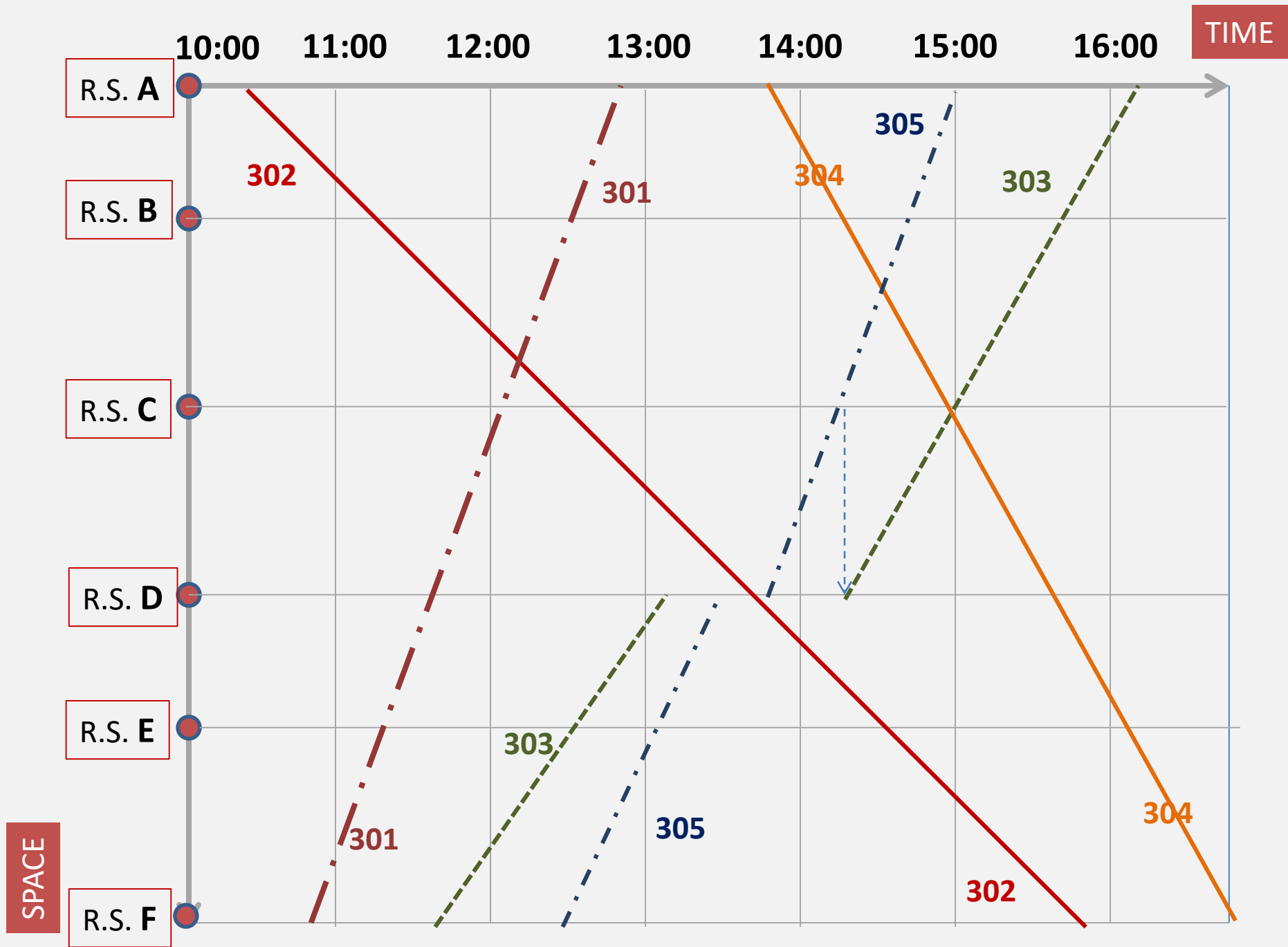


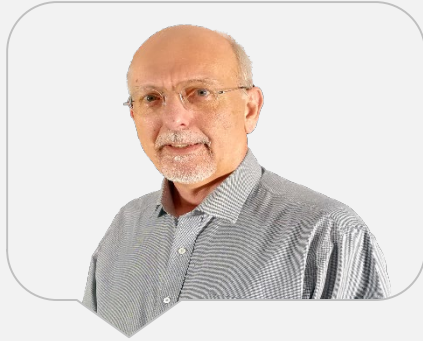












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