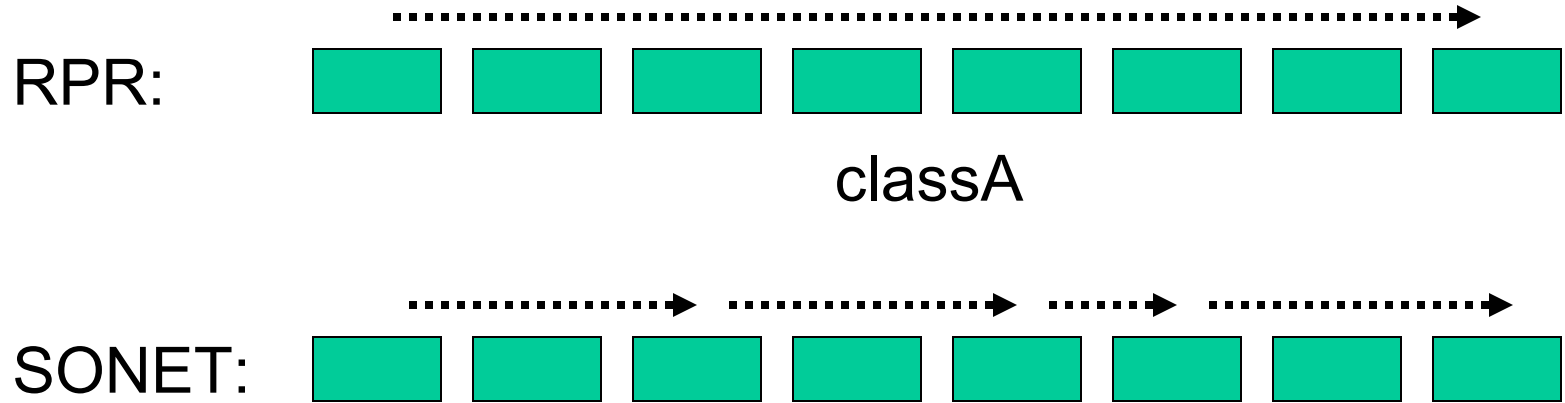


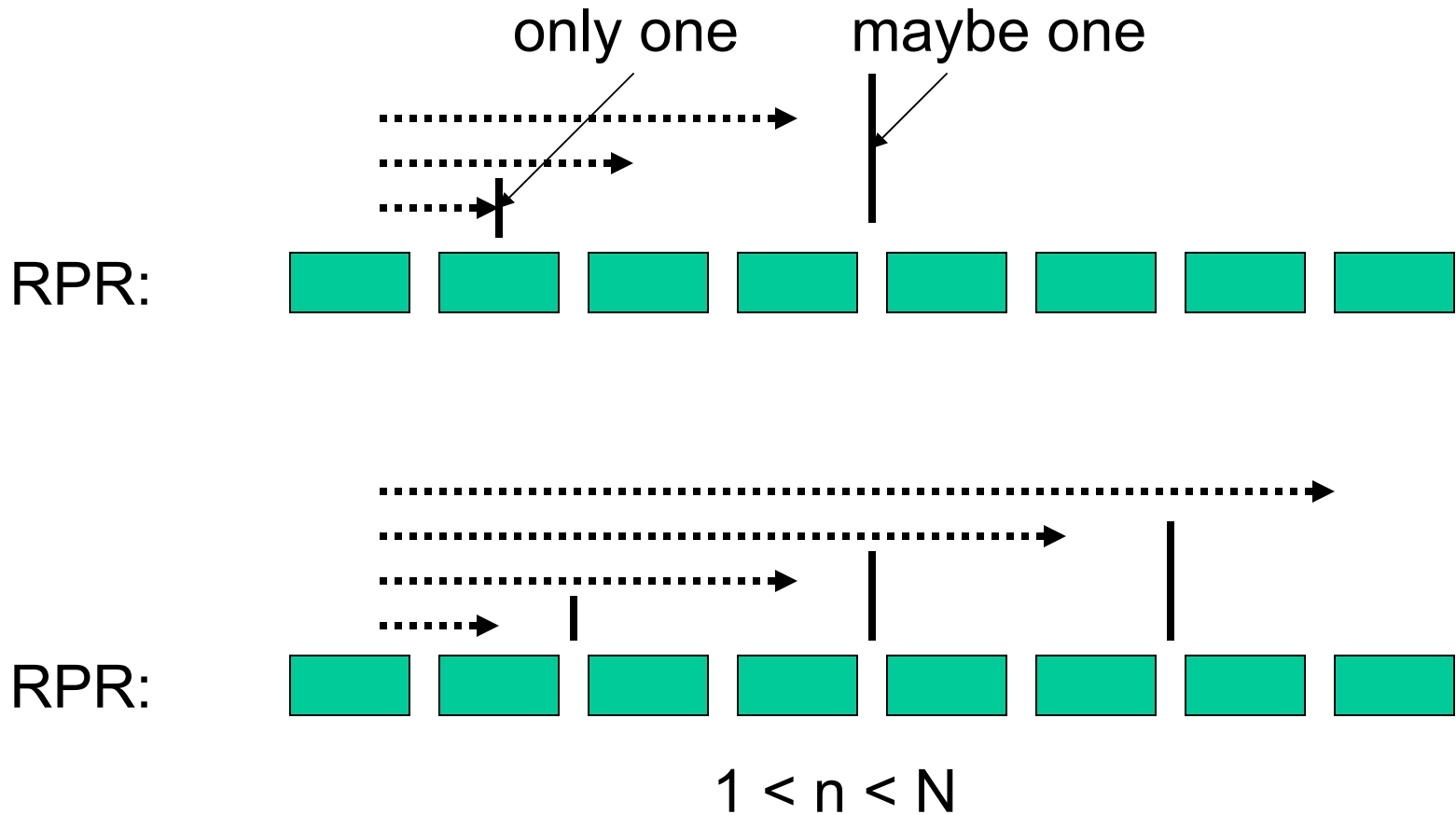
# **Spatial aware bandwidth extensions**

**DVJ presentation**

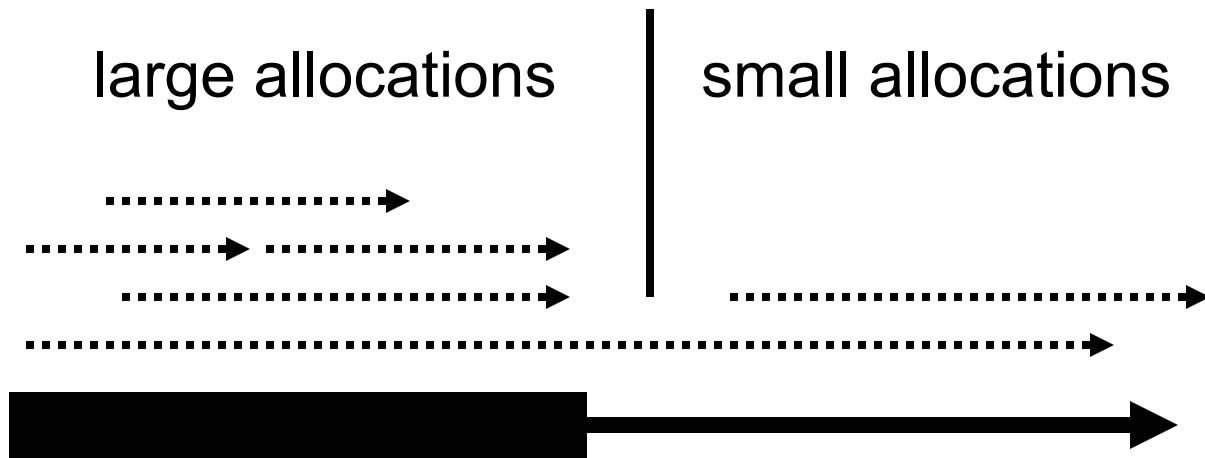
# Spatial reuse: classA&B



# Spatial reuse: classC



# Multi-speed ringlets



RPRb: 

# Assumptions

- **Fairness messages**  
Same rate transmissions  
Reserved fields available  
Interoperability required  
(but maybe nonoptimal)
- **Topology/discovery/client services**  
Interoperability required  
Other issues TBD

# Reasons for a PAR

- **Marketing reasons:**  
Sonet can do efficient TDM, we cannot  
Likely to be a multispeed requirement  
Spatial reuse → increased bandwidth
- **Technical issues:**  
Interoperability  
Bandwidth allocations  
Fairness:  
    multichoke sensing  
    multichoke throttles