

Code #6: X-Code

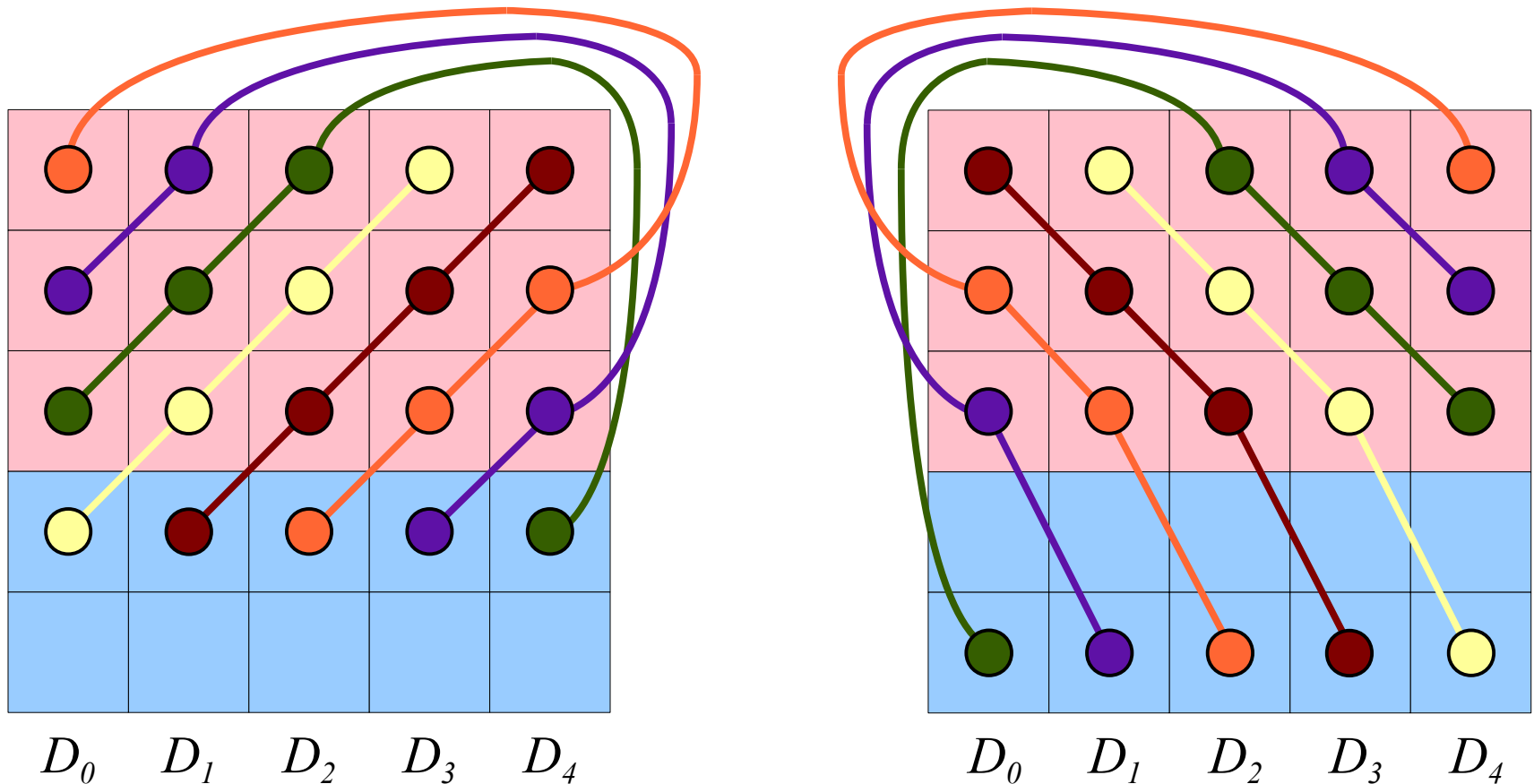
(1999)

X-Code – Properties & Constraints

- RAID-6 ($m=2$)
- Vertical code
 - Disks must hold data & coding.
- Systematic, MDS
- n must be prime.
- $r = n$.

X-Code Example: $n = 5$ ($k = 3$).

Simple mirror-image diagonal coding.



Like EO and RDP, each diagonal chain is missing one disk.

X-Code Example: $n = 5$ ($k = 3$).

Like EVENODD and RDP, find the chains missing one bit and decode from those chains.

