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Core structure: The coupling failure procedure in multiplex networks

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***Highlights (for review)**

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Hightlights:

1. We generalize the pruning algorithm for multiplex networks to extract the core structure.
2. The rate equation is derived to describe the evolution of core percolation in multiplex networks with an arbitrary number of layers.
3. The numerical results under four different degree distribution networks agree well with the analytical results.
4. The possible origin for this transition phenomenon is discussed.

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