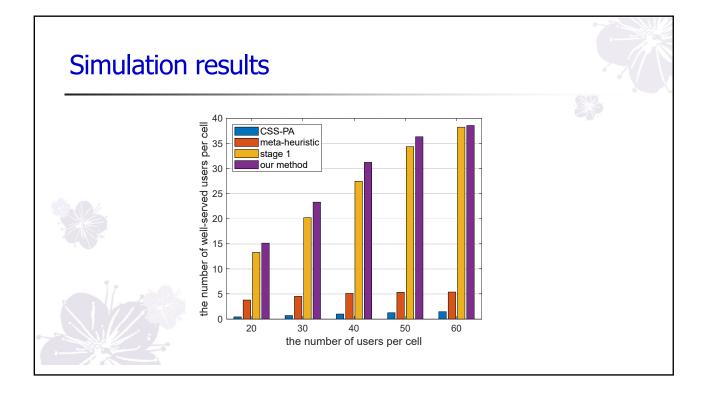
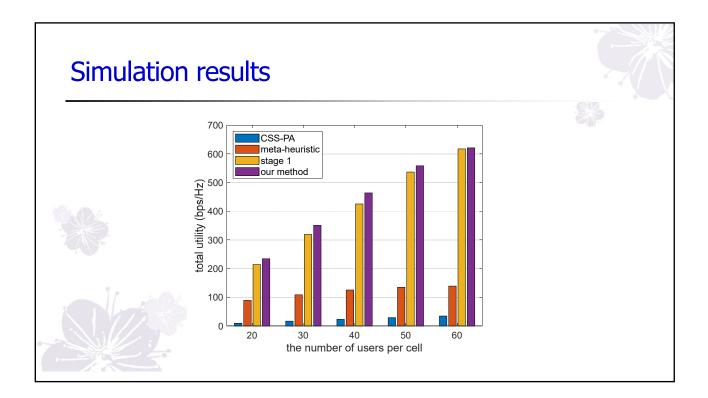


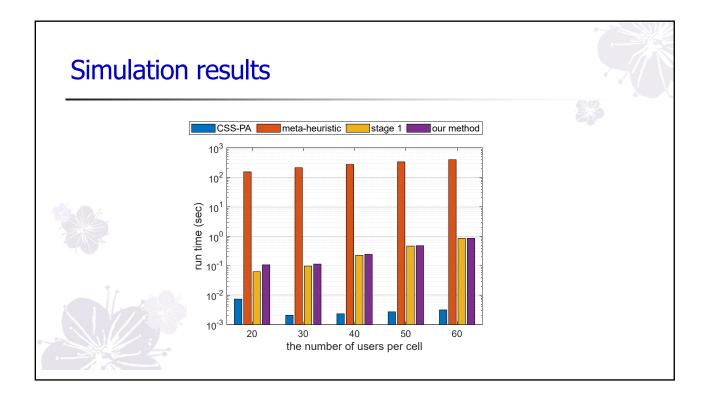
Simulation results

Simulation parameters

	Parameter	Value
	Radius of cell	500 m
	Power budget per BS	40 dBm
	The number of BS antenna	1
	The number of user antenna	1
	The rate requirements of users	1,2,4,8 bps/Hz
	The number of RBs	20
	Path loss model	$133.6 + 35 log_{10}(d[km])$
	Bandwidth per resource block	180 kHz
	Noise spectral density	-174 dBm/Hz







Conclusion

- We consider both user pairing and power allocation jointly for NOMA with CoMP support
 - Primary goal: Maximization of the number of well-served users
 - Secondary goal: Maximization of total utility
- Our proposed method
 - Closed-form formulas for optimal utility-based power allocation
 - Matching-based user pairing method
- Simulation results
 - Our method outperforms the other schemes in terms of
 - The number of well-served users
 - Total utility
 - The performance gap becomes larger as the number of users increases