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A novel integer programming formulation for scheduling with family setup times on a single machine to minimize maximum lateness

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Highlights

- We consider a single machine with family setups and minimise maximum lateness
- We develop a novel integer programming model with a strong lower bound
- We prove our bound gap grows sub-linearly with the number of jobs
- We present new approximation algorithms that improve on existing results
- We solve much larger problems than have been solved before

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