

minimum cost bipartite perfect matching.  
 $\tilde{O}((|E| + |V|^{1.5}) \log^2 W) = \tilde{O}(|V|^2)$  [1].

## References

- [1] Jan van den Brand, Yin-Tat Lee, Danupon Nanongkai, Richard Peng, Thatchaphol Saranurak, Aaron Sidford, Zhao Song, and Di Wang. Bipartite matching in nearly-linear time on moderately dense graphs. *arXiv e-prints*, pages arXiv–2009, 2020.