

Contents

Introduction	1
Results overview	3
1 Preliminaries	6
1.1 Basic notation	6
1.2 Regularity Lemma	7
1.3 Trees	9
2 Results on tree cutting	12
3 Embedding of trees in graphs with minimum degree condition	16
3.1 Embedding of trees in large connected graphs	16
3.1.1 Cutting the trees into small pieces	16
3.1.2 Bipartite case	17
3.1.3 Non-bipartite case	21
3.1.4 Embedding constant degree trees	24
3.2 Main results	26
3.2.1 A general embedding lemma	26
3.2.2 Minimum degree theorems	30
3.2.3 Maximum degree $\frac{4k}{3}$	33
4 Embedding of trees with linear degree	36
4.0.1 Cutting the trees into small pieces	36
4.0.2 A structural lemma	38
4.0.3 Main result	39
5 On the Erdős-Sós conjecture	44
Conclusion	45
Bibliography	46