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Covering a graph by forests and a matching

The fractional arboricity $\Upsilon_f(G)$ of a graph G is a rational relaxation of arboricity introduced by Charles Payan. By a result of Montassier et al., if $\Upsilon_f(G) \leq \frac{4}{3}$, then the edges of G can be covered by a forest and a matching. In this talk, we show that if $\Upsilon_f(G) \leq k + \frac{1}{3k+2}$, then $E(G)$ can be covered by k forests and a matching. Joint work with Mickaël Montassier and André Raspaud.