Multicolor Ramsey number for the loose 3-path of length three

Let P_3^3 be the 3-uniform hypergraph with the set of vertices $\{a, b, c, d, e, f, g\}$ and the set of edges $\{\{a, b, c\}, \{c, d, e\}, \{e, f, g\}\}$. The Ramsey number $R(P_3^3; n)$ is the smallest integer N such that any coloring of the edges of the complete 3-uniform hypergraph K_N^3 on N vertices with n colors leads to a monochromatic copy of P_3^3 . We show that

$$R(P_3^3;n) \le \lambda_0 n + 7\sqrt{n},$$

for some explicit constant $\lambda_0 = 1.97466...$

This is joint work with Tomasz Łuczak.