



## On KLT and SYM-supergravity relations from 5-point 1-loop amplitudes

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We derive a new non-singular tree-level KLT relation for the n=5-point amplitudes, with manifest 2(n-2)! symmetry, using information from one-loop amplitudes and IR divergences, and speculate how one might extend it to higher n-point functions. We show that the subleading-color  $\alpha = 1 \le 1$  symmetry, using information from one-loop amplitudes and IR divergences, and speculate how one might extend it to higher n-point functions. We show that the subleading-color  $\alpha = 1 \le 1$  symmetry, using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry, using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry, using information from one-loop amplitudes and IR divergence and IR divergence of  $\alpha = 1 \le 1$  symmetry, using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from one-loop amplitudes and IR divergence of  $\alpha = 1 \le 1$  symmetry using information from  $\alpha = 1 \le 1$  symmetry using information from  $\alpha = 1 \le 1$  symmetry

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