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N-spike string in AdS_3 \times Sˆ{1} with mixed flux

Sigma model in AdS_{3}× Sˆ{3} background supported by both NS-NS and R-R fluxes is one of the most distinguished integrable models. We study a class of classical string solutions for N-spike strings moving in AdS_{3}× Sˆ{1} with angular momentum J in Sˆ{1} ⊂ Sˆ{5} in the presence of mixed flux. We observe that the addition of angular momentum J or winding number m results in the spikes getting rounded off and not end in cusp. The presence of flux shows no alteration to the rounding-off nature of the spikes. We also consider the large N-limit of N-spike string in AdS_{3} × Sˆ{1} in the presence of flux and show that the so-called Energy-Spin dispersion relation is analogous to the solution we get for the periodic-spike in AdS_{3}– pp-wave ×Sˆ{1} background with flux.

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