### عنوان مقاله:

Study of virtual annihilation and retardation effects in relativistic two-, four-, and six-body wave equations in scalar **QFT** 

## محل انتشار:

فصلنامه فیزیک تئوری و کاربردی, دوره 11, شماره 4 (سال: 1396)

تعداد صفحات اصل مقاله: 14

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#### خلاصه مقاله:

The variational method within the Hamiltonianformalism of QFT using Darewych reformulated modelhas been used for scalar particles and antiparticlesinteracting through a scalar mediating field. We haveinvestigated the relativistic effects such as virtual annihilationinteractions and retardation effects for relativistictwo-, four-, and six-body wave equations inscalar QFT. Approximate ground-state solutions havebeen studied for different strengths of coupling, for bothmassive and massless mediating fields where the virtualannihilation terms or retardation effects in the .waveequations have been included or eliminated

**کلمات کلیدی:** Relativistic Wave equations Bound state Virtual annihilation interactions Retardation effects

لینک ثابت مقاله در پایگاه سیویلیکا:

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