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Rowan Killip (killip@math.ucla.edu), UCLA Mathematics Department, Box 951555, Los Angeles, CA 90095-1555, **Betsy Stovall*** (betsy@math.ucla.edu), UCLA Mathematics Department, Box 951555, Los Angeles, CA 90095-1555, and **Monica Visan** (visan@math.ucla.edu), UCLA Mathematics Department, Box 951555, Los Angeles, CA 90095-1555. *On finite time blowup solutions to certain nonlinear Klein–Gordon equations.*

In this talk, we will consider the focusing nonlinear Klein–Gordon equation

$$u_{tt} - \Delta u + m^2 u = |u|^p u,$$

for $0 \leq m \leq 1$, $\frac{4}{d} < p < \frac{4}{d-2}$, $d \geq 2$, with initial data $u(0) \in H^1(\mathbb{R}^d)$, $u_t(0) \in L^2(\mathbb{R}^d)$. For a solution u which blows up in finite time, we study the behavior of various norms of $u(t)$ and $u_t(t)$ as t approaches the blowup time. This is joint work with Rowan Killip and Monica Visan. (Received August 29, 2011)