Meeting: 998, Houston, Texas, SS 2A, Special Session on Representations of Algebras

998-16-334 **Raymundo Bautista*** (raymundo@matmor.unam.mx), Instituto de Matematicas UNAM (Morelia), Antigua carretera a Patzcuaro No. 8701, Apartado Postal 61-3 (Xangari), 58089 Morelia, Michoacan, Mexico. *On Auslander-Reiten triangles for derived tame algebras.* Preliminary report.

Let A be a finite dimensional k-algebra, with k an algebraically closed field. Suppose that the bounded derived category of A, $D^b(A)$ is of tame representation type.

We will prove that for all fixed vector $(v_i)_{i\in\mathbb{Z}}$ with v_i a non-negative integer and for almost all isomorphism class $[X]$ in $D^b(A)$ with X a finite complex of finitely generated projectives and $v_i = dim_k H^i(X)$ for all $i \in \mathbb{Z}$, there is an Auslander-Reiten triangle:

$$X \to E \to X \to X[1].$$

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