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FE-4	Asymptotic property in variation for nonlinear differential systems via t_{∞}-similarity
<p>비선형 미분계의 점근성질 중 점근 평형점과 점근적 동치개념을 변동미분계를 통하여 살펴보고 점근적 동치개념과 변동 점근적 동치 개념들의 동치성을 주로 비교원리와 t_{∞}-상사개념을 이용하여 보인다.</p>	

김학만*(충남대), 전길웅(충남대), 김광휘(강남대)	
FE-5	On the stability of a Difference Equation
<p>In this talk, we investigate the Hyers-Ulam stability problem for the difference equation</p> $f(x+p, y+q) + \varphi(x, y)f(x, y) + \psi(x, y) = 0.$ <p>As a result we obtain: Suppose that functions $f, \psi: N_k \times N_k \rightarrow \mathbb{R}$ and φ satisfy the inequality</p> $ f(x+p, y+q) + \varphi(x, y)f(x, y) + \psi(x, y) \leq \delta$ <p>for all $x, y \in N_k$. Then there exist unique functions $T, T_h, T_p: N_k \times N_k \rightarrow \mathbb{R}$ such that T, T_p satisfy the equation</p> $f(x+p, y+q) + \varphi(x, y)f(x, y) + \psi(x, y) = 0,$ <p>T_h satisfies the equation</p> $f(x+p, y+q) + \varphi(x, y)f(x, y)$ <p>and the relations</p> $ f(x, y) - T(x, y) \leq \delta \varepsilon(x, y),$ $ f(x, y) - T_h(x, y) \leq \delta \varepsilon(x, y) + \varepsilon'(x, y) ,$ $ T_p(x, y) \leq \varepsilon'(x, y) ,$ $T(x, y) = T_h(x, y) + T_p(x, y)$ <p>hold for all $x, y \in N_k$. If the range of f is in $(0, \infty)$, then the range of T_h is in $(0, \infty)$.</p>	