

구남집*(충남대), 최성규(충남대)	
FE-4	<b>Asymptotic property in variation for nonlinear differential systems via <math>t_{\infty}</math>-similarity</b>
<p>비선형 미분계의 점근성질 중 점근 평형점과 점근적 동치개념을 변동미분계를 통하여 살펴보고 점근적 동치개념과 변동 점근적 동치 개념들의 동치성을 주로 비교원리와 <math>t_{\infty}</math>-상사개념을 이용하여 보인다.</p>	

김학만*(충남대), 전길웅(충남대), 김광휘(강남대)	
FE-5	<b>On the stability of a Difference Equation</b>
<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 <math>f, \psi: N_k \times N_k \rightarrow \mathbb{R}</math> and <math>\varphi</math> satisfy the inequality</p> $ f(x+p, y+q) + \varphi(x, y)f(x, y) + \psi(x, y)  \leq \delta$ <p>for all <math>x, y \in N_k</math>. Then there exist unique functions <math>T, T_h, T_p: N_k \times N_k \rightarrow \mathbb{R}</math> such that <math>T, T_p</math> satisfy the equation</p> $f(x+p, y+q) + \varphi(x, y)f(x, y) + \psi(x, y) = 0,$ <p><math>T_h</math> 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 <math>x, y \in N_k</math>. If the range of <math>f</math> is in <math>(0, \infty)</math>, then the range of <math>T_h</math> is in <math>(0, \infty)</math>.</p>	