

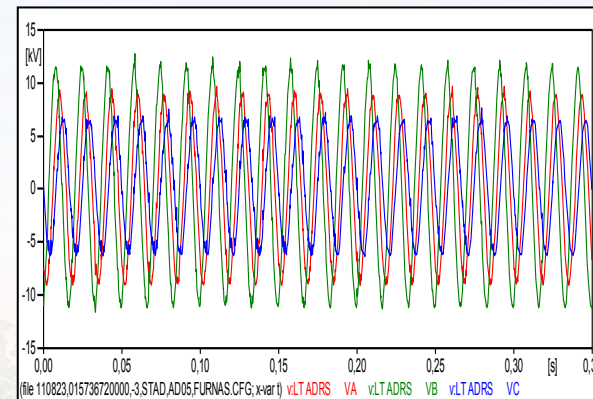
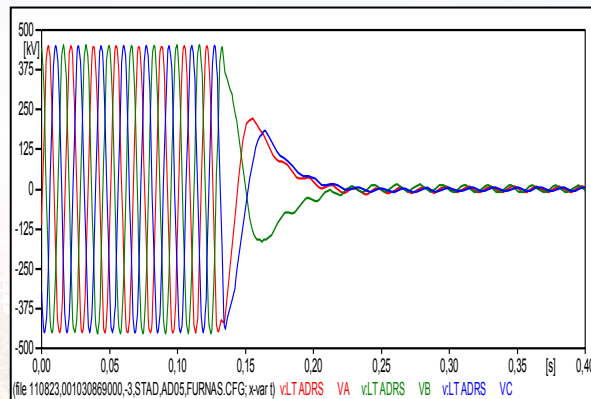
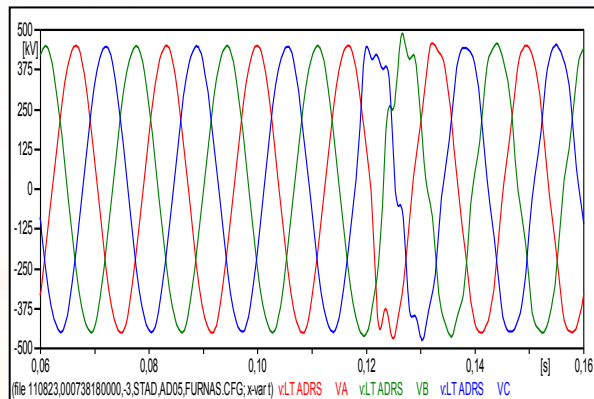
ANÁLISE DE RESSONÂNCIA ENVOLVENDO LINHAS PARALELAS E REATORES

Guilherme Sarcinelli Luz
Davi Sixel Arentz

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- The diagram shows a 3-phase 3-wire system. Three horizontal lines represent the phase conductors. The top and middle lines are grounded at both ends, indicated by ground symbols (three horizontal lines of decreasing width). The bottom line is grounded only at the right end. A vertical line on the left and a vertical line on the right represent the system boundaries. The text 'C.Paulista' is at the top left, 'Adrianopolis' is at the top right, 'Resende' is in the middle, and 'B.Fluminense' is at the bottom right.

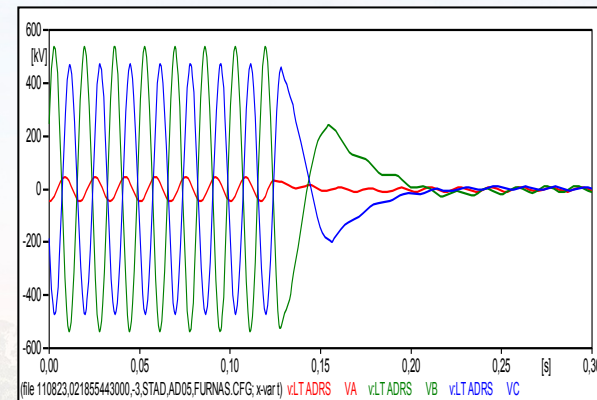
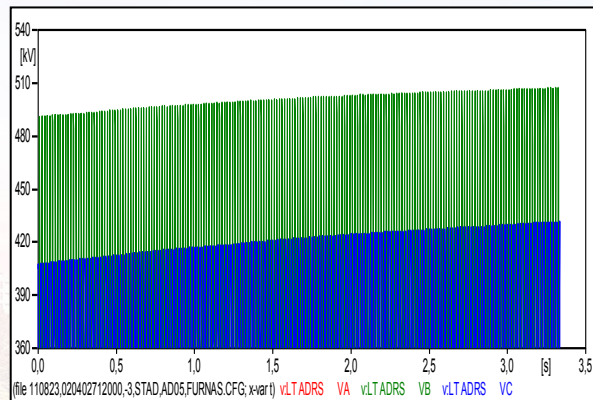
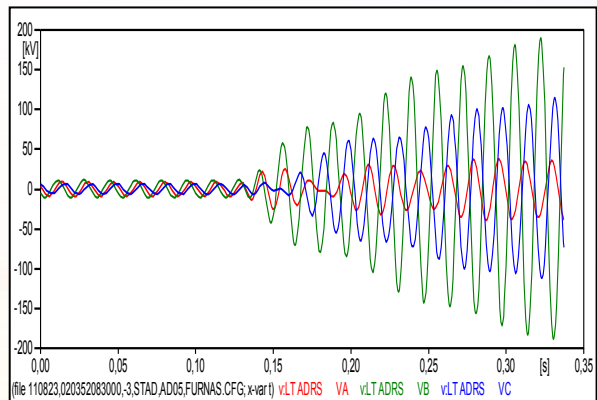
OSCILOGRAFIA

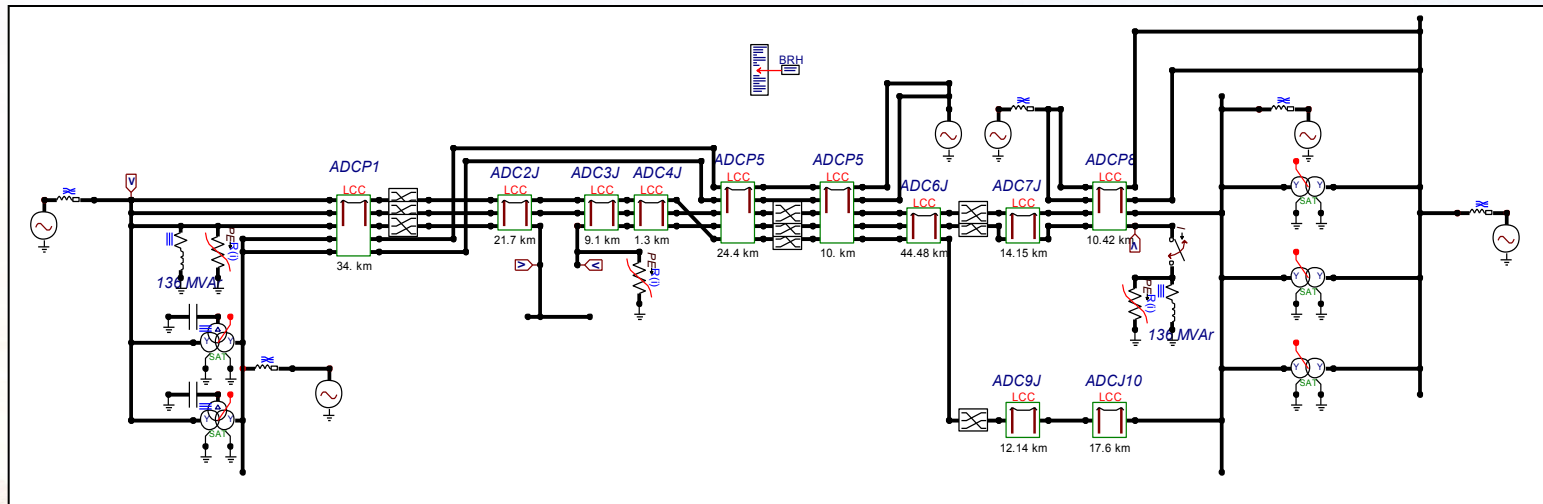
Tensão no terminal de Adrianópolis – sem reator



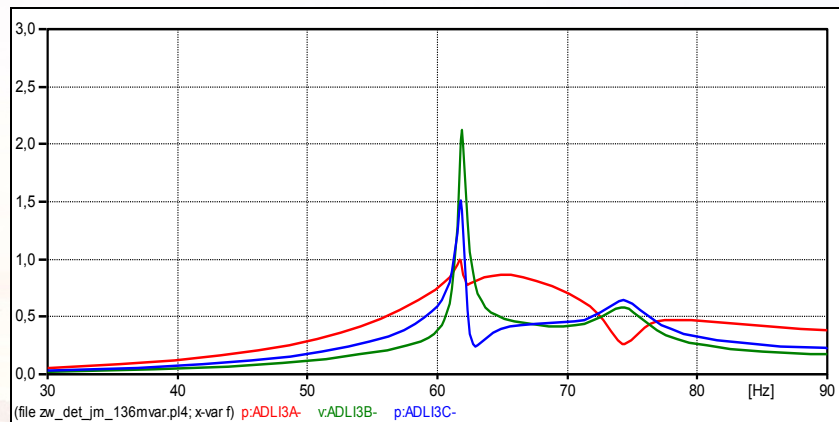
OSCILOGRAFIA

Tensão no terminal de Adrianópolis – manobra do reator

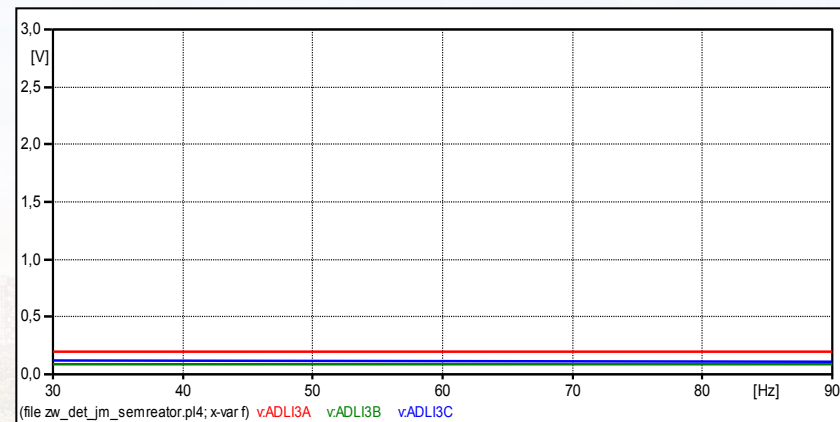




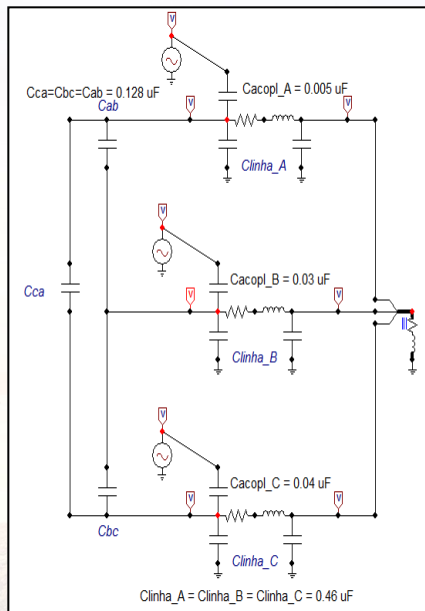
Rede modelada no ATPDraw considerando as transposições nos circuitos de 500 kV



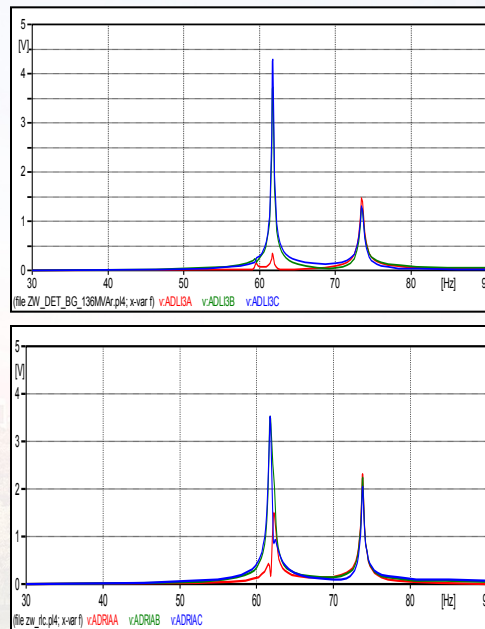
Com o reator de 136 Mvar



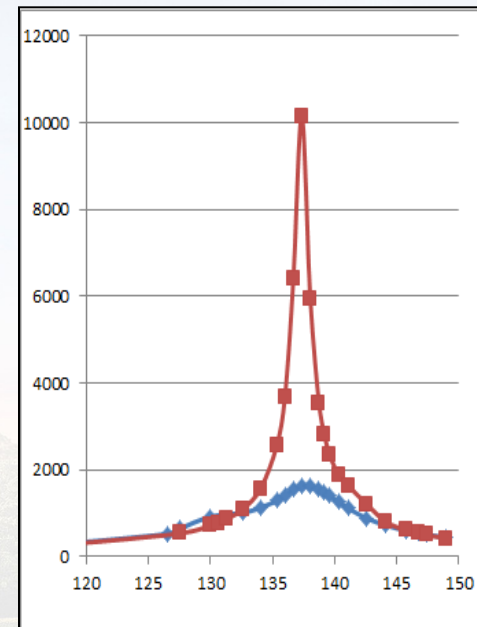
Sem o reator de 136 Mvar



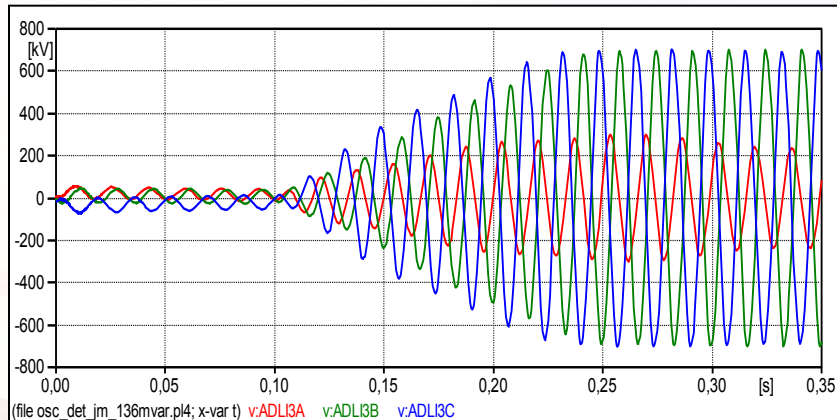
Circuito RLC ajustado



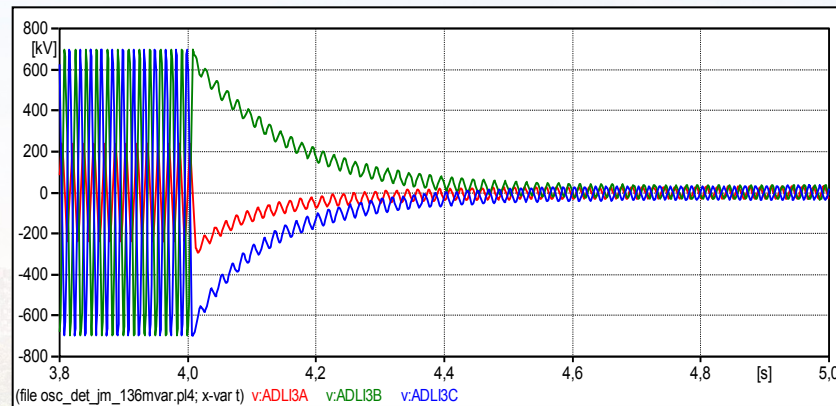
Tensão transferida



Tensão residual versus
potencia do reator



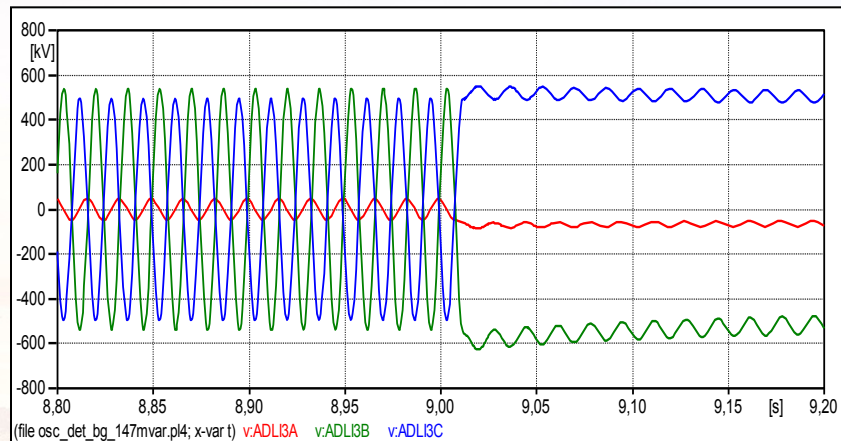
Inserção do reator de 136 Mvar



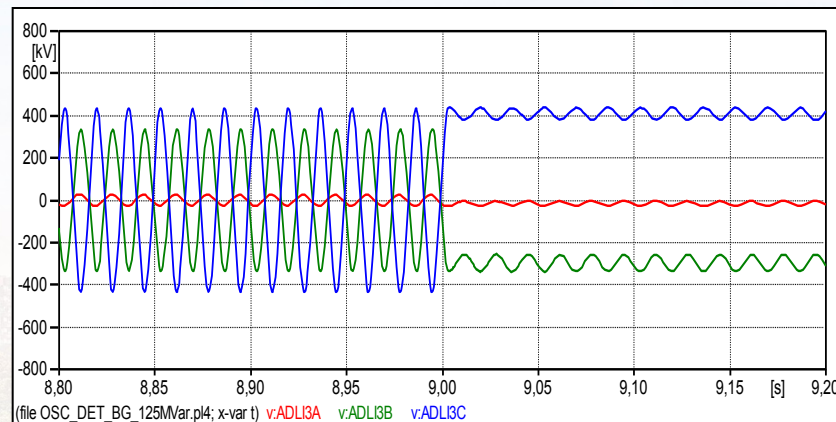
Retirada do reator de 136 Mvar

ANÁLISES NO DOMÍNIO DO TEMPO

Mudança na Sintonia do Circuito Ressonante

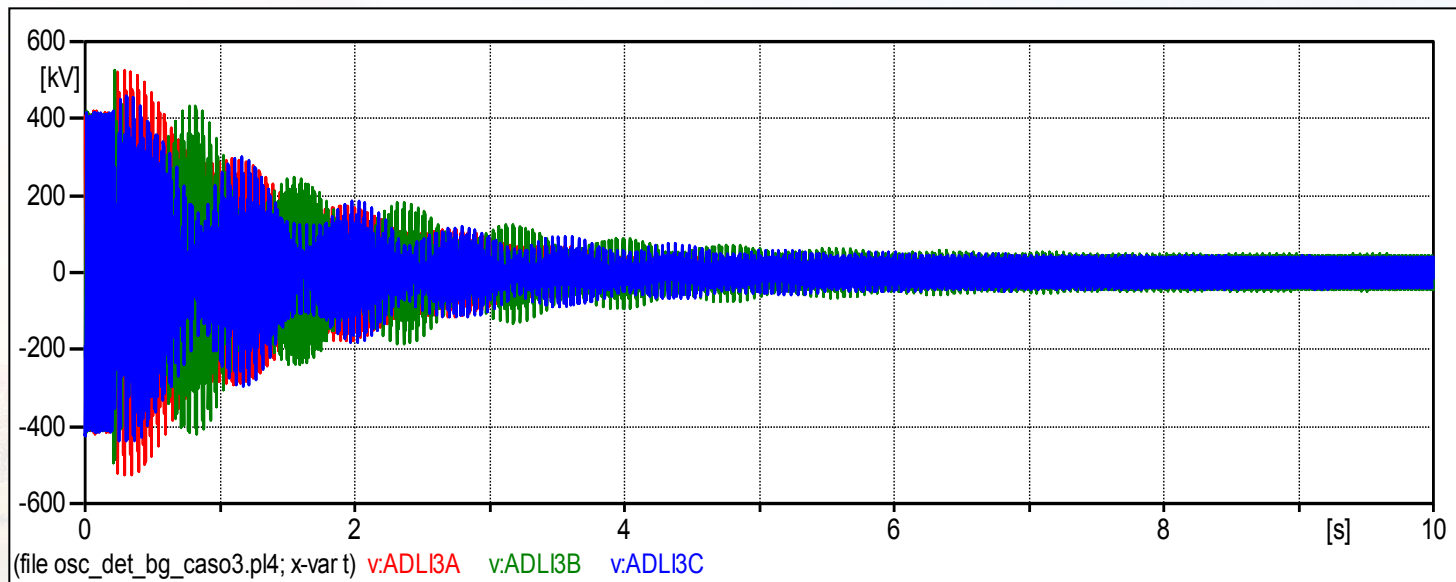


Reator de 147 Mvar

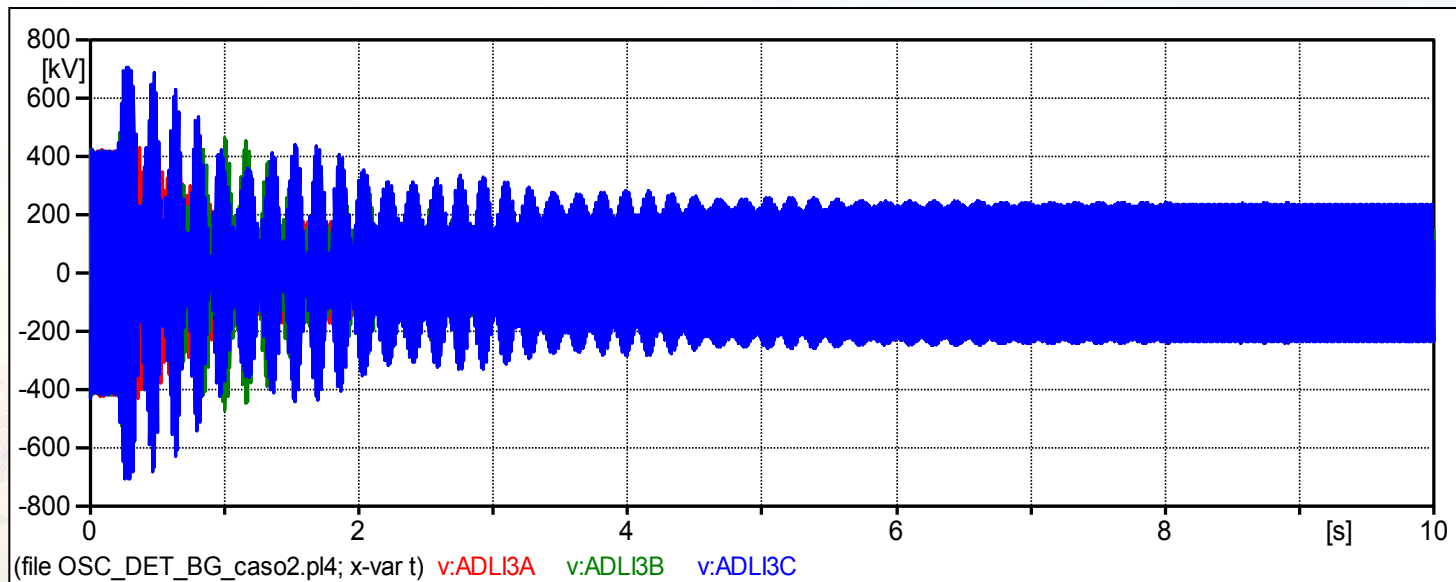


Reator de 125 Mvar

Alternativa 2: Instalação de reator de 112,4 Mvar no terminal Resende da LT 500 kV Adrianópolis – Resende, mantendo os reatores dos terminais de Adrianópolis e Cachoeira Paulista.



Alternativa 3: Substituição do atual reator de 136 Mvar do terminal de Adrianópolis por um reator de 112,4 Mvar disponível na SE Campinas;



Guilherme Sarcinelli

 (21) 3444-9539

 sarcinelli@ons.org.br

 www.ons.org.br