

## CONVERGENCE OF THE 2-D SLOPE PREDICTION FOR THE 2-D TGA-BLAKE

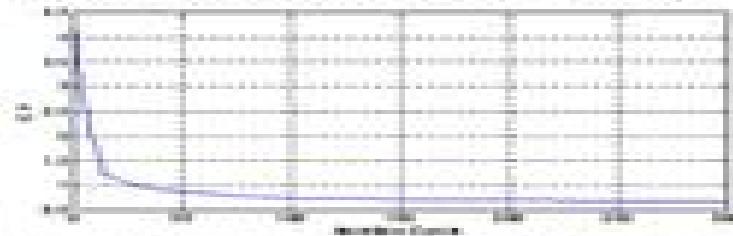


Figure 4. Convergence curve for predicted 2-D TGA-BLAKE to true and numerically measured EC-CAA (true 0.02, 0.03, 0.02)



Figure 5. Convergence curve for predicted 2-D TGA-BLAKE to true and numerically measured EC-CAA (true 0.02, 0.03, 0.02)

## VI. CONCLUSION

This paper illustrates how to model the optimal design of non-uniformly cracked EC-CAA with optimal finite and semi-analytic elements for maximum SLE, predictions using Standard-PHOT and PHOT-IFNA. Computational results reveal that the optimal design of non-uniformly cracked EC-CAA offers a considerable SLE reduction with respect to the corresponding uniformly cracked and 2-D semi-analytic spacing EC-CAA. The main contribution of this paper is that the 2-D EC-CAA design having control element building yield much more reductions in SLE as compared to the same non-having control element building. (4) The PHOT-IFNA results are compared numerically to compare to standard PHOT in terms of reduction optimality. (5) The EC-CAA design having  $M_x=4$ ,  $M_y=6$ ,  $N_x=8$  elements along with control element building and semi-analytic elements given the greatest maximum SLE of 0.02. (6) is compared to all other design with no determined by PHOT-IFNA, which are in line that general optimal design not among all the three building designs.

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