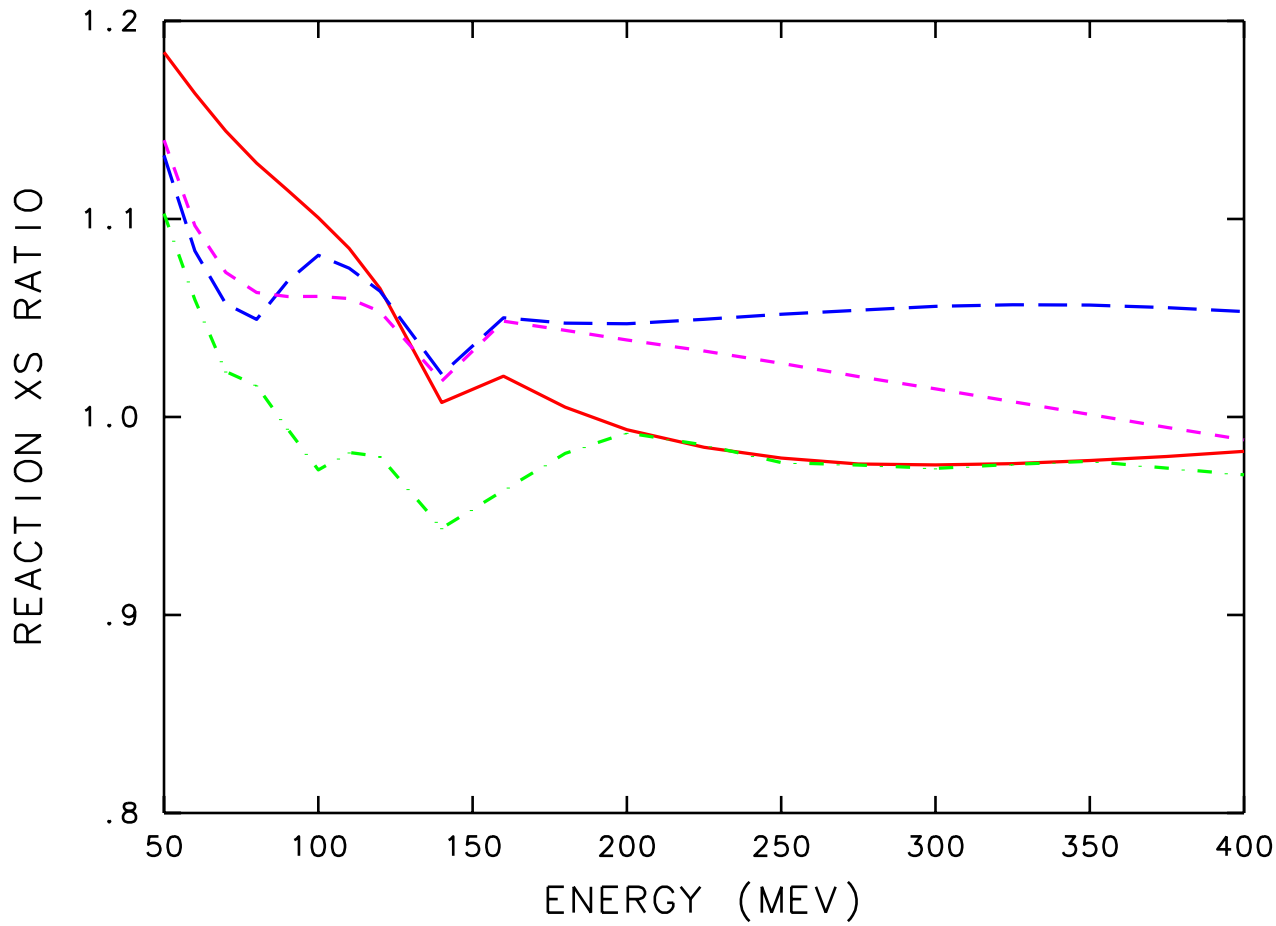
PROTONS ON A = 12 Z = 6

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

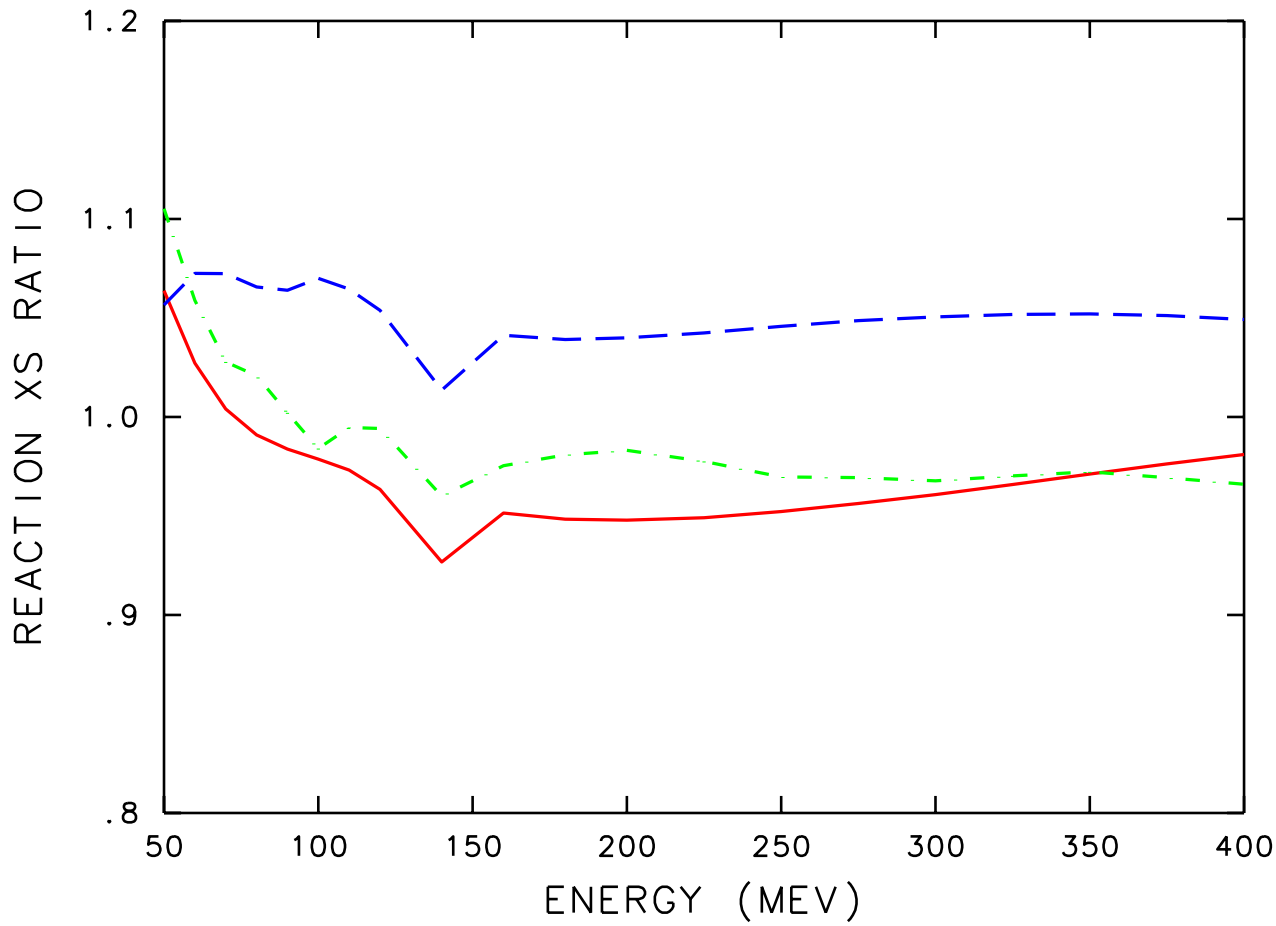


NEUTRONS ON A = 12 Z = 6

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

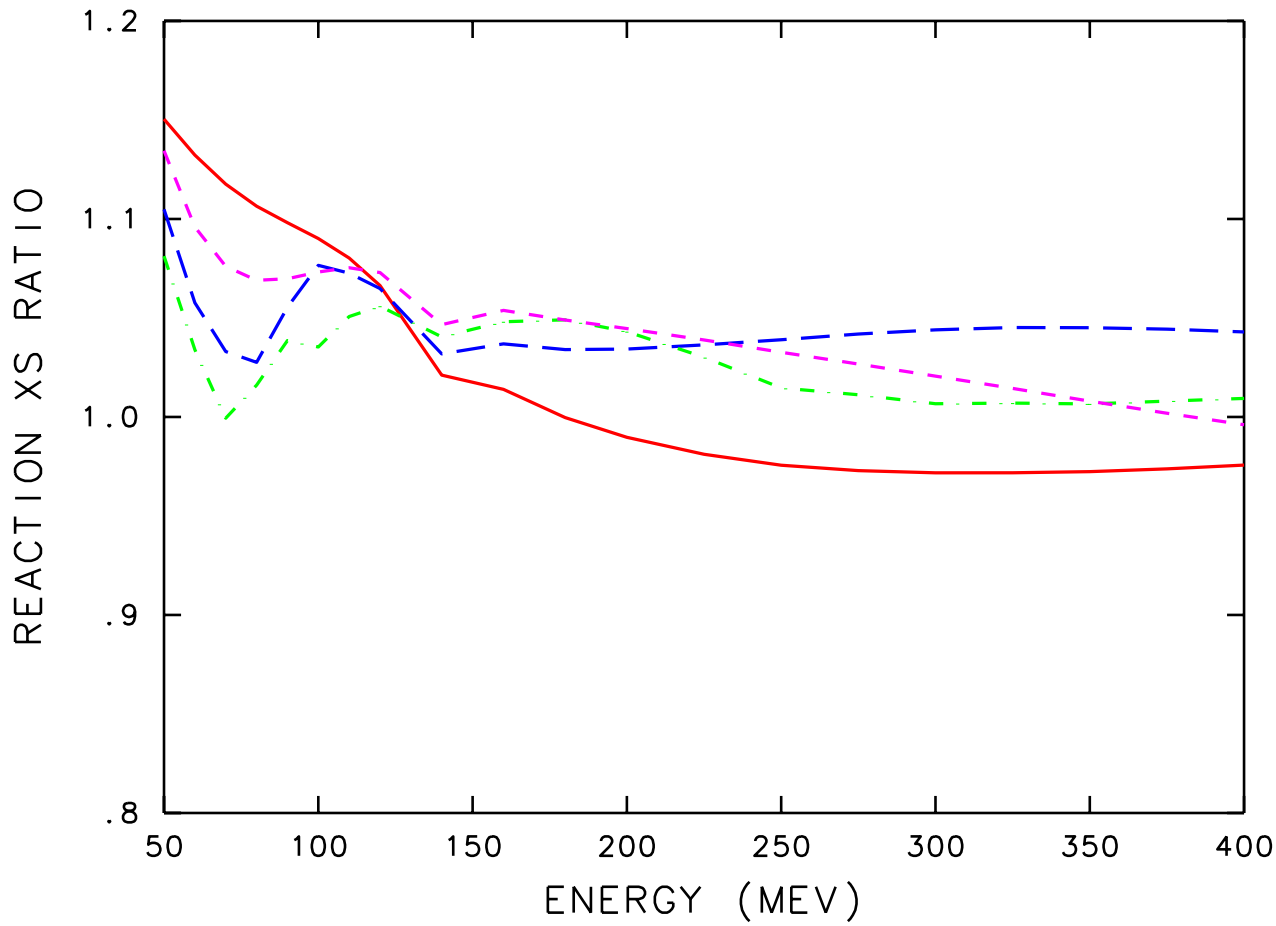


PROTONS ON A = 16 Z = 8

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

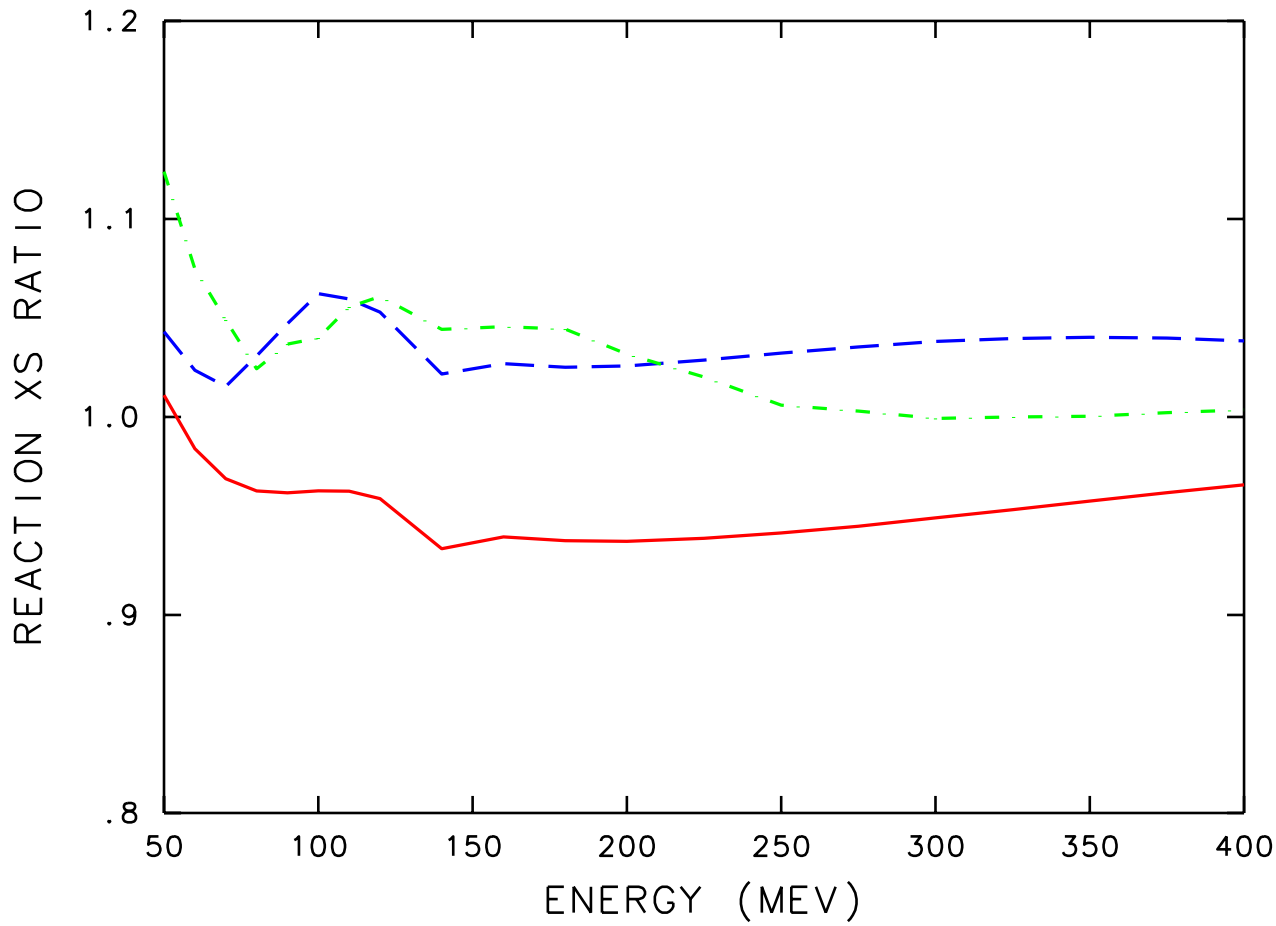


NEUTRONS ON A = 16 Z = 8

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

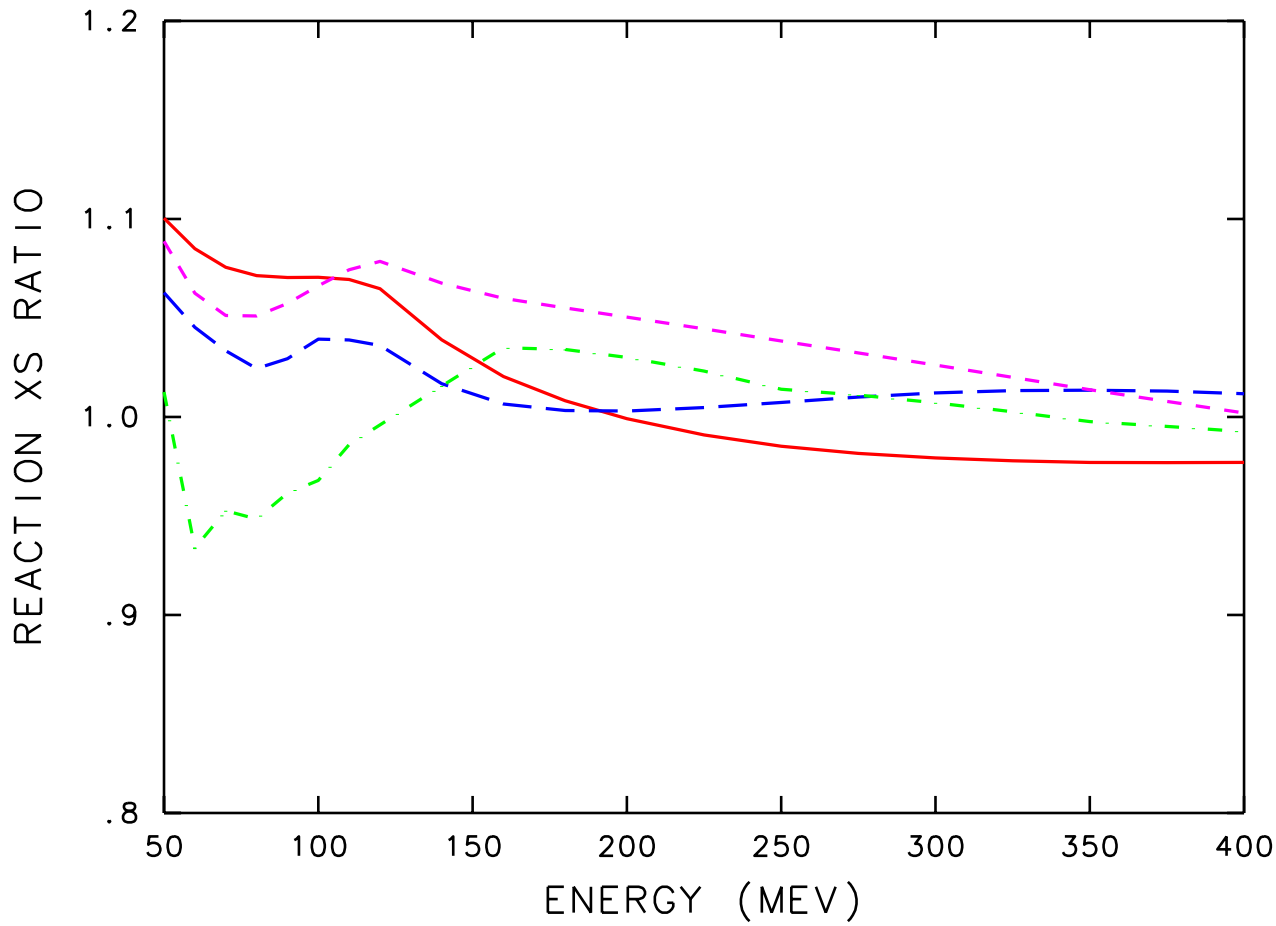


PROTONS ON A = 27 Z = 13

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

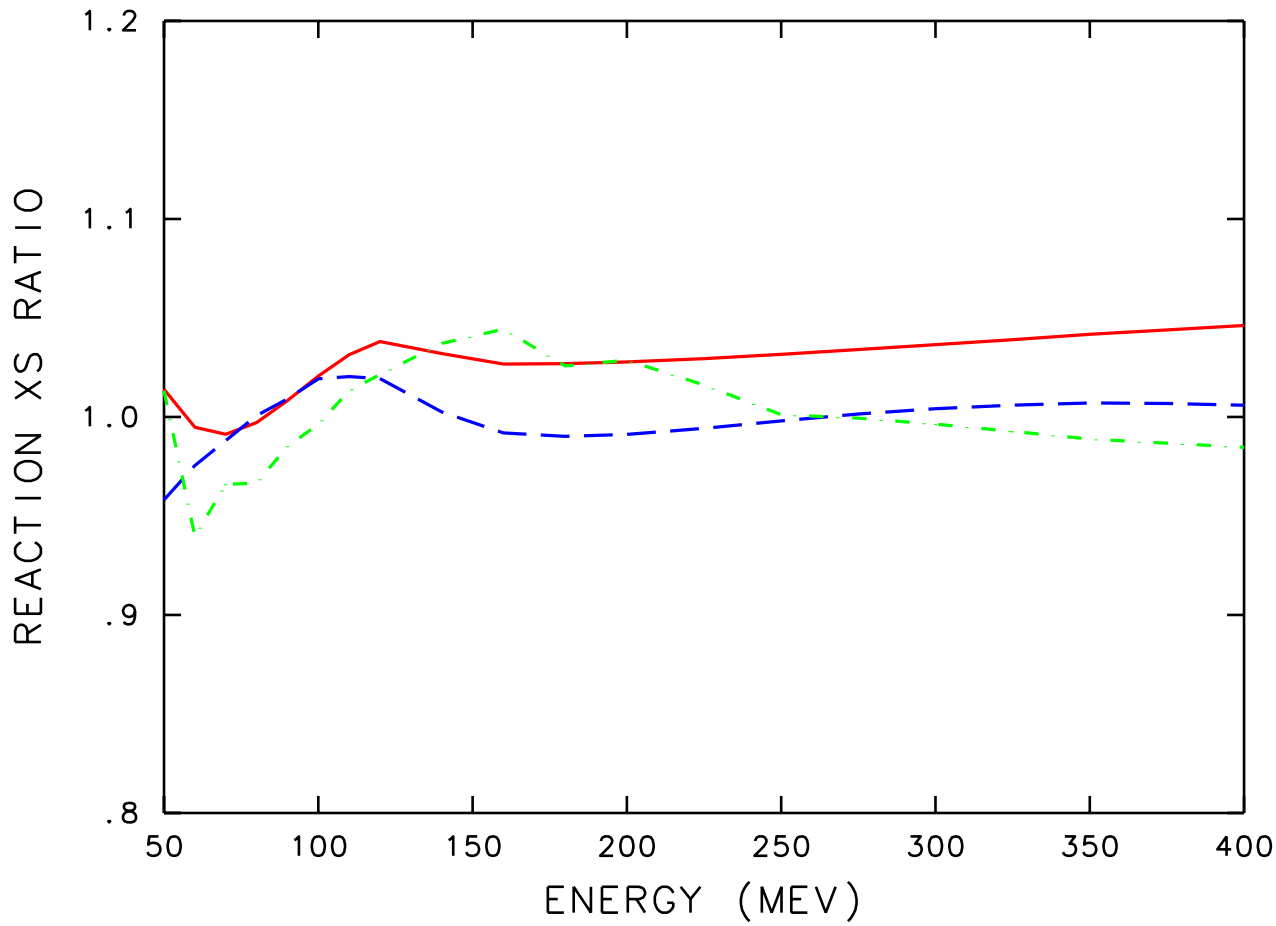


NEUTRONS ON A = 27 Z = 13

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

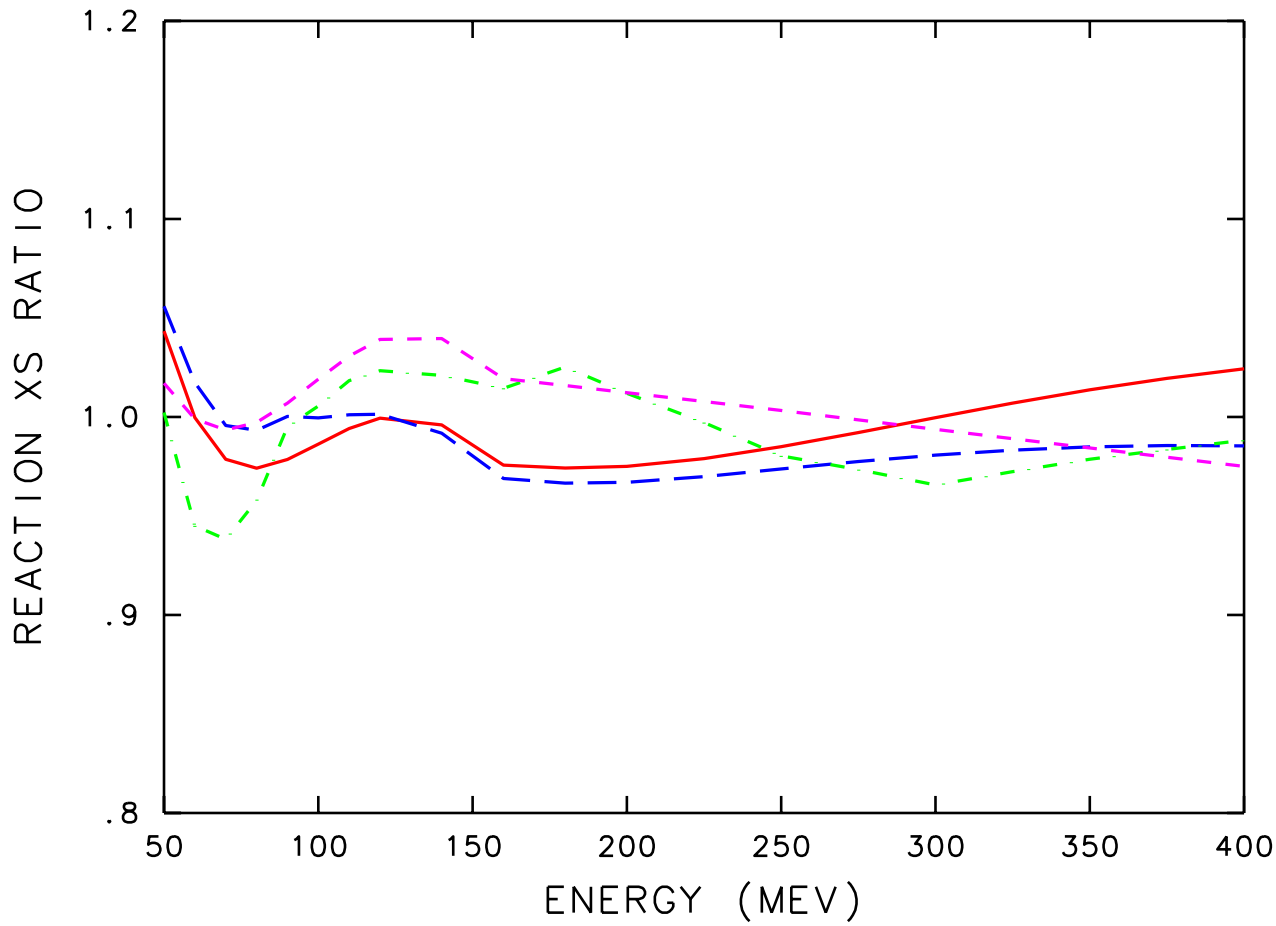


PROTONS ON A = 40 Z = 20

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

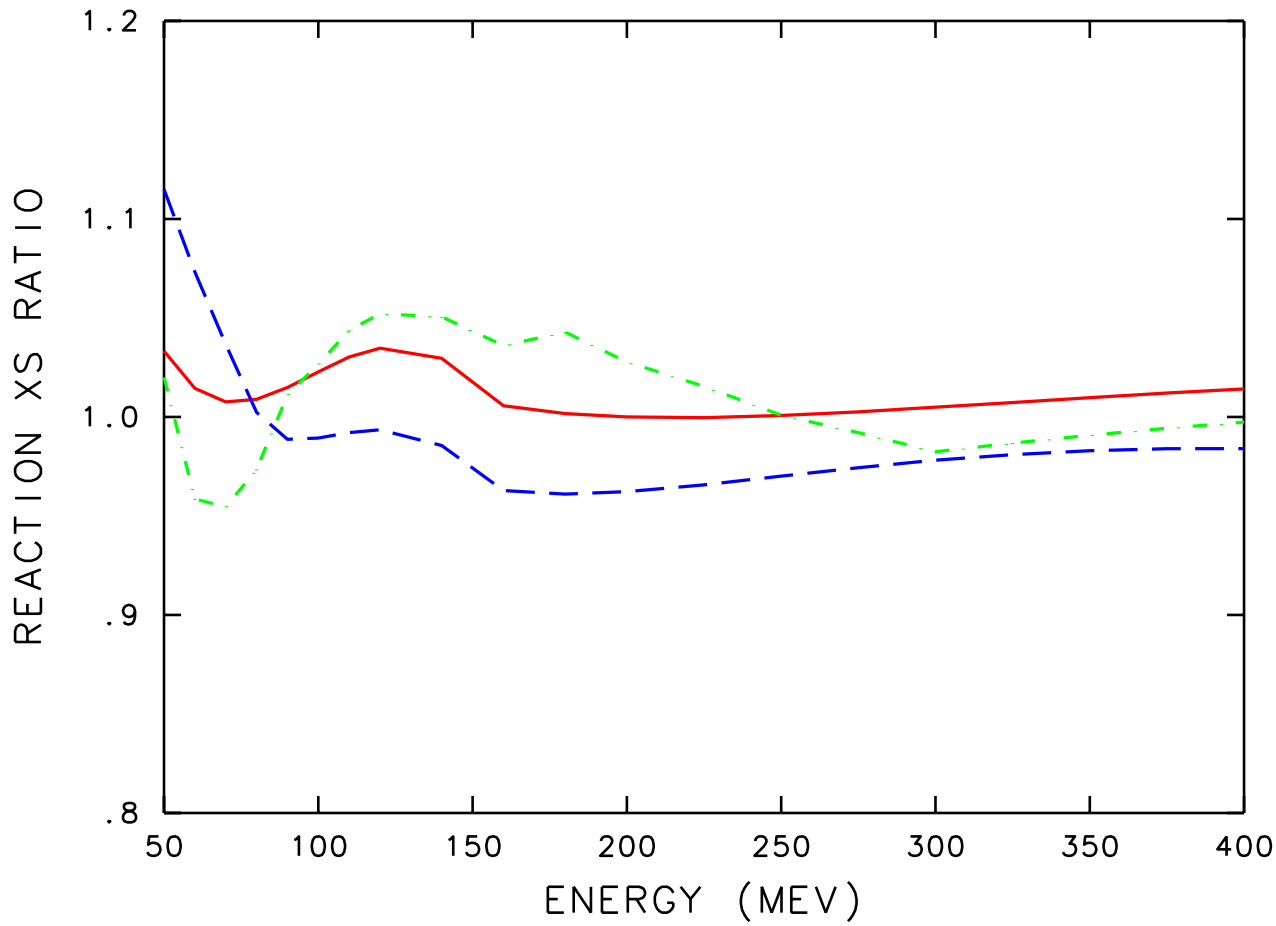


NEUTRONS ON A = 40 Z = 20

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

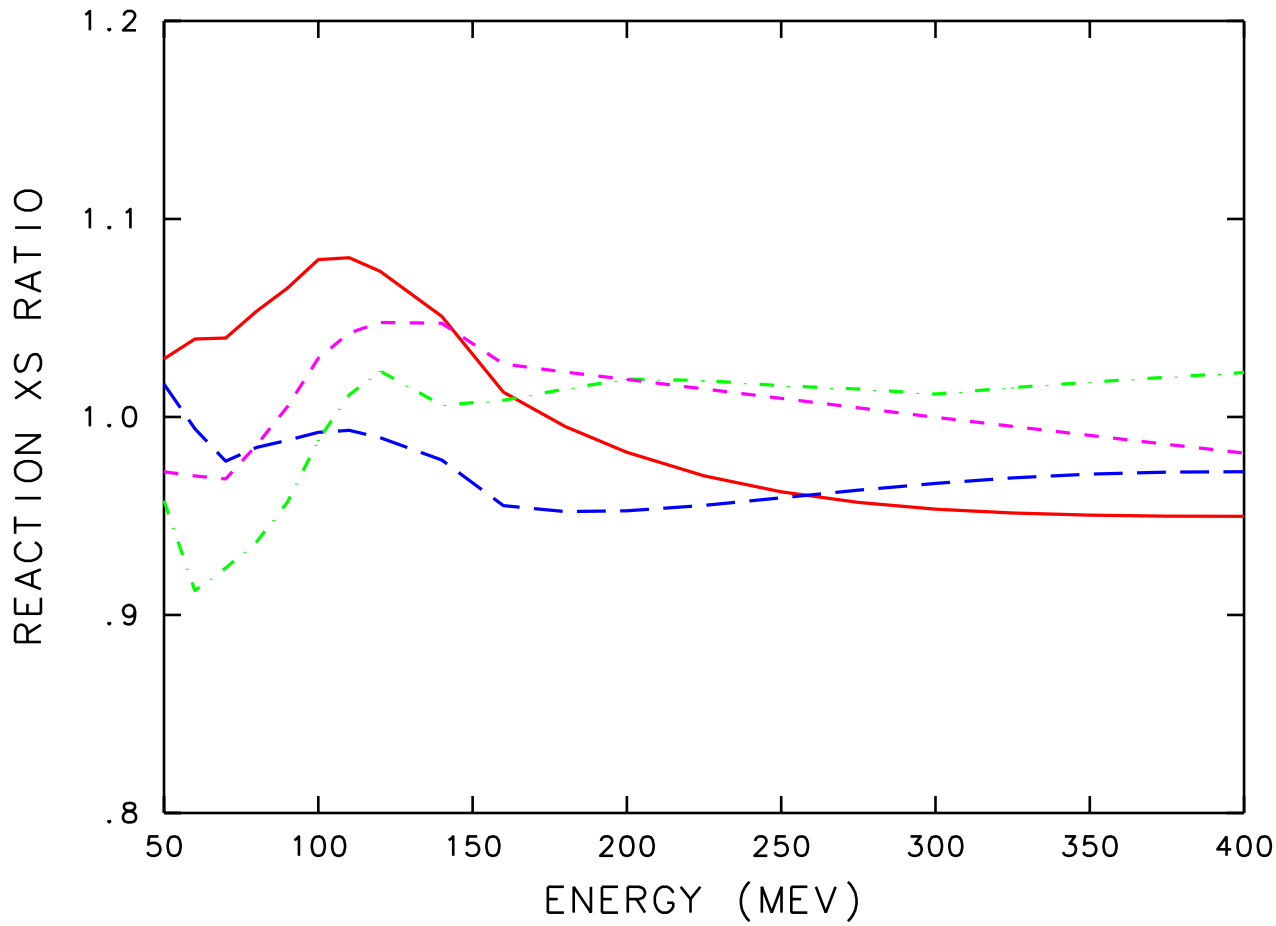


PROTONS ON A = 56 Z = 26

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

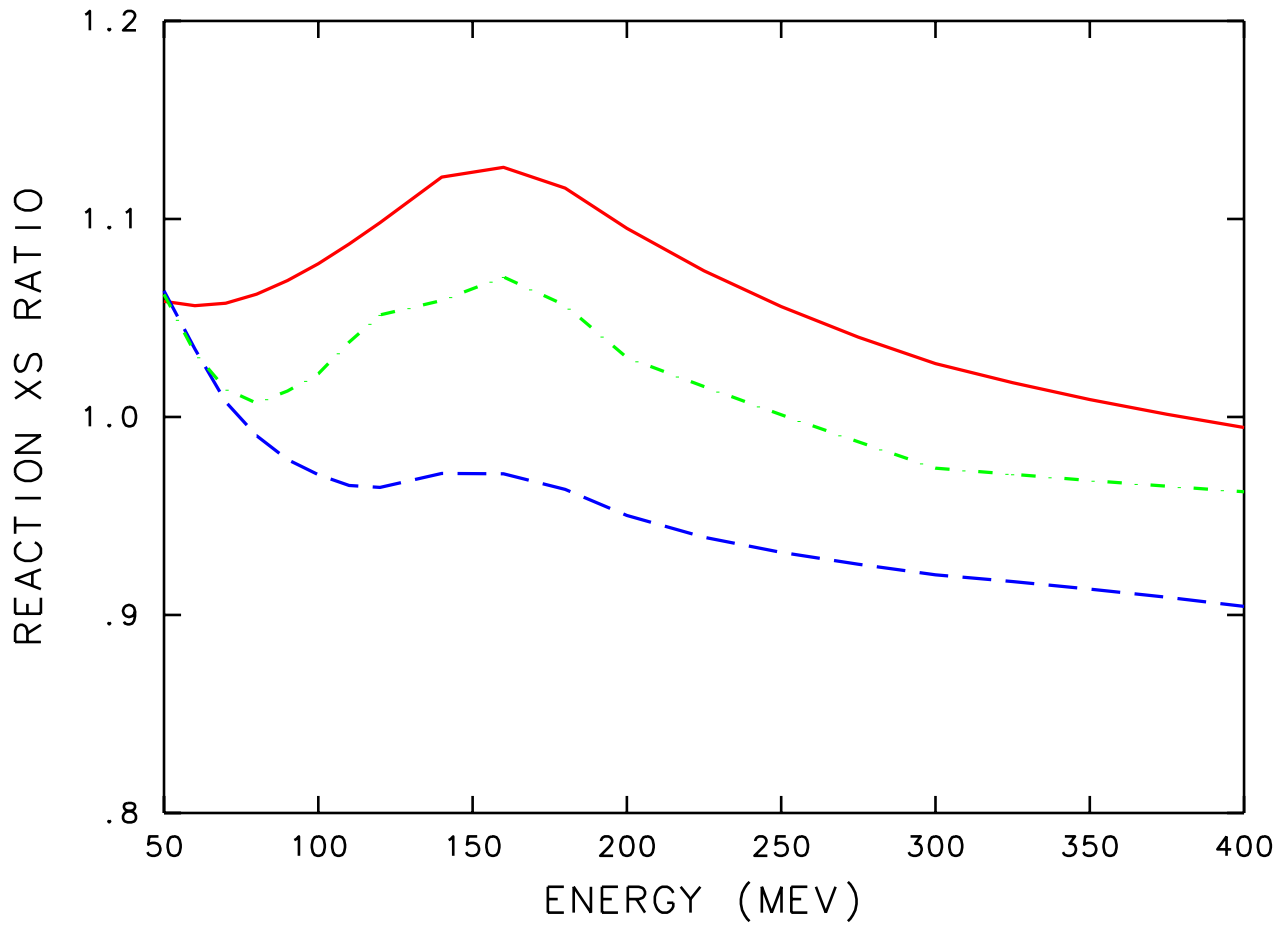


NEUTRONS ON A = 56 Z = 26

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

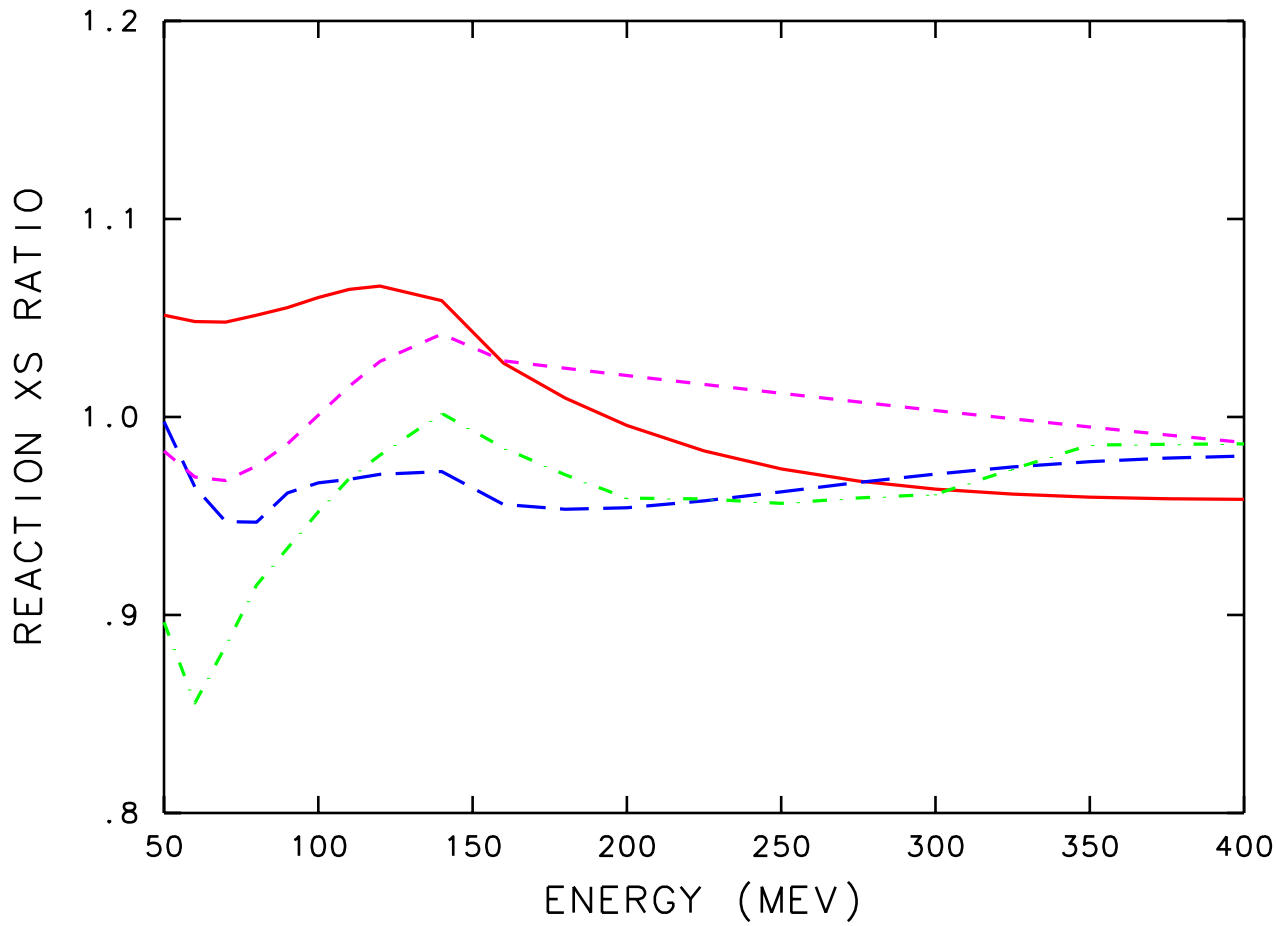


PROTONS ON A = 81 Z = 35

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

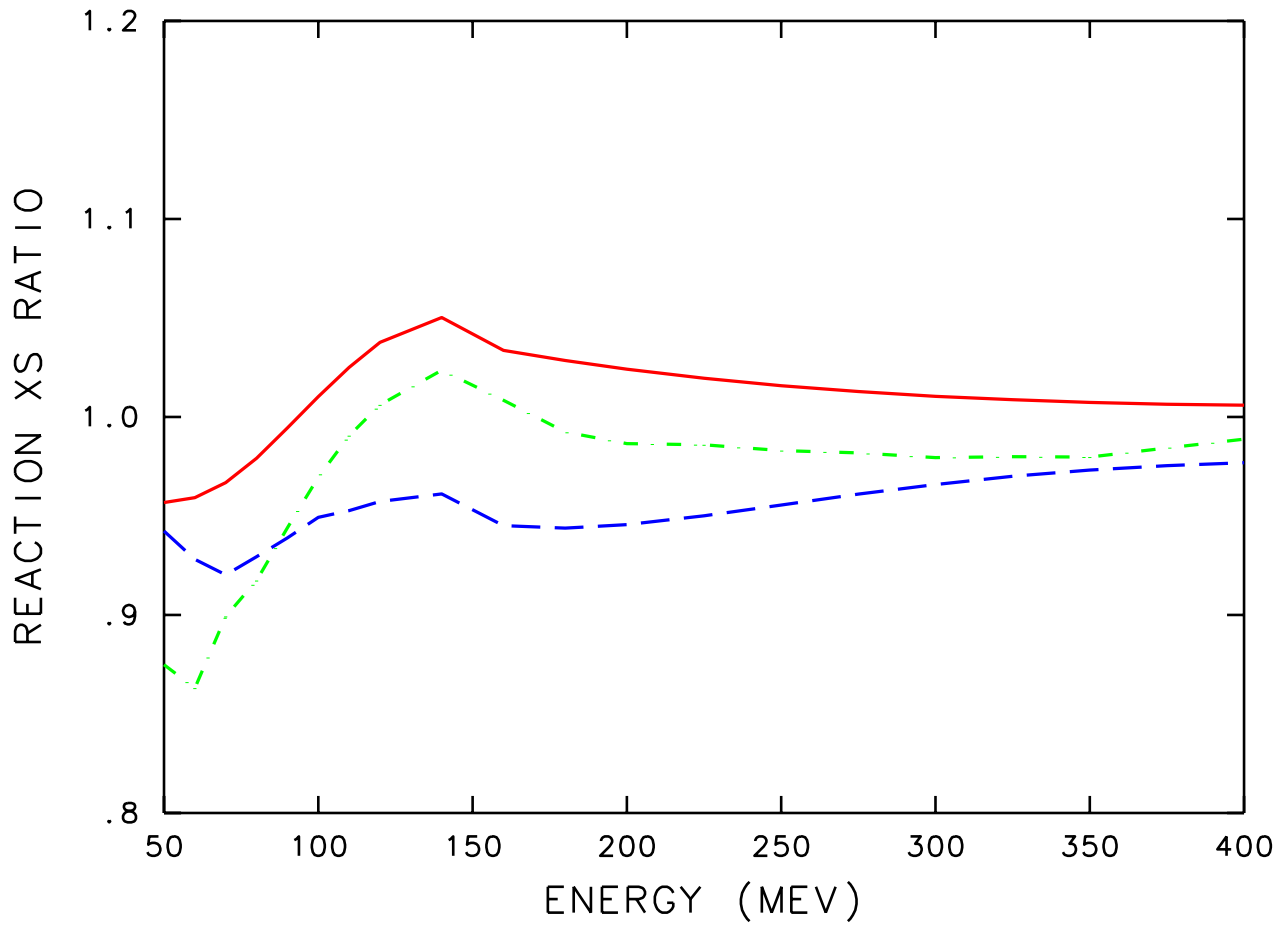


NEUTRONS ON A = 81 Z = 35

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

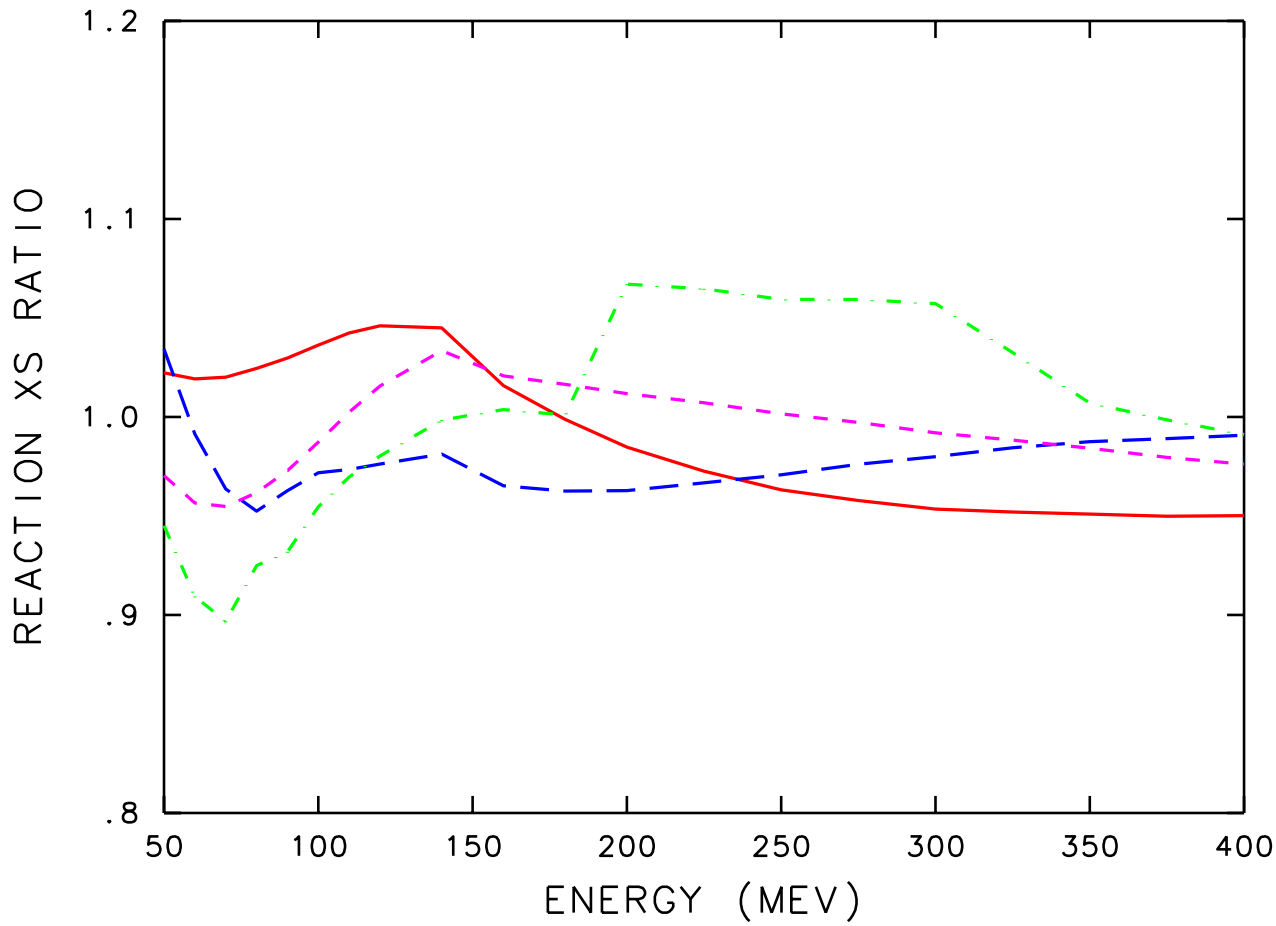


PROTONS ON A = 107 Z = 47

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

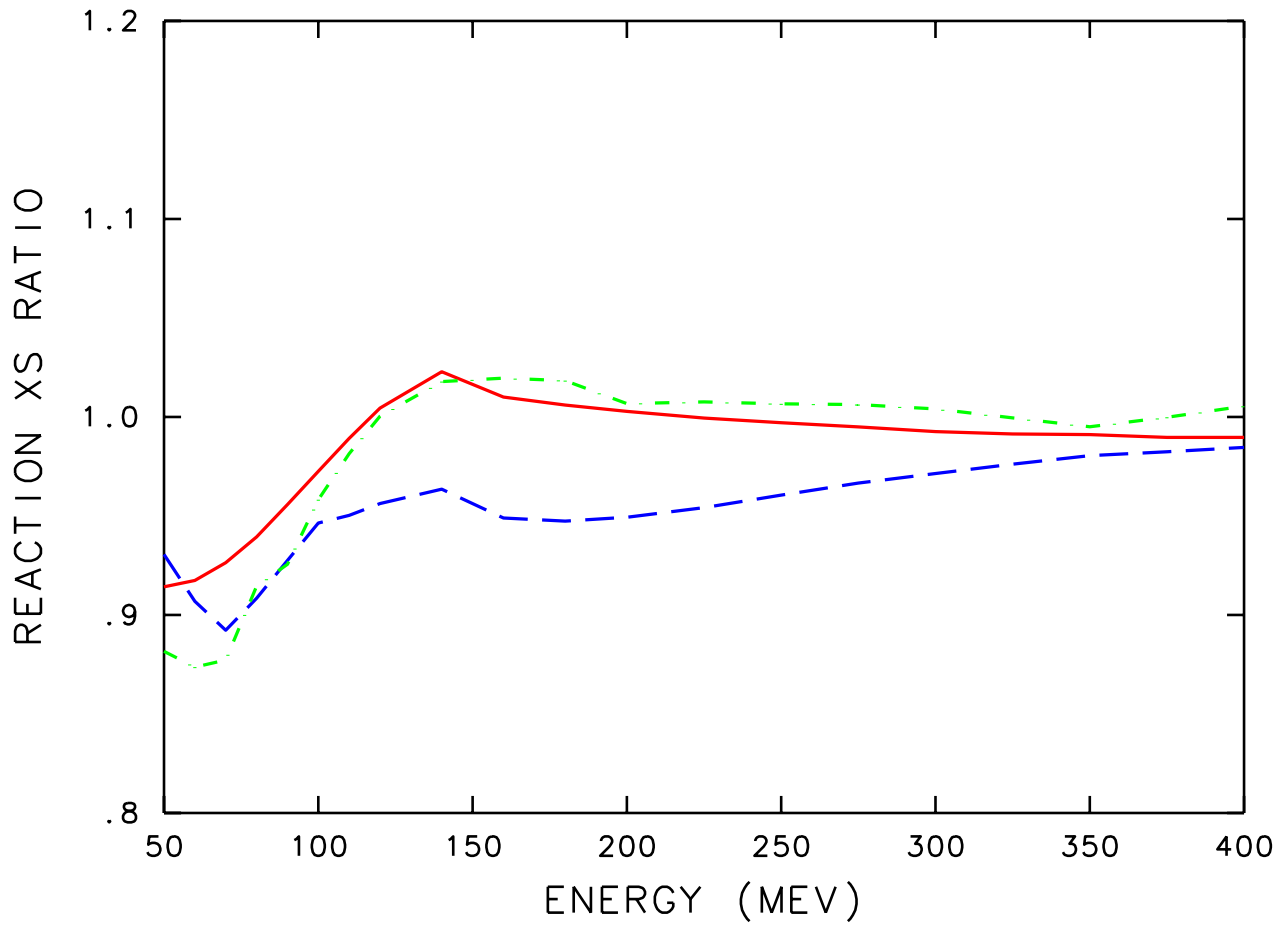


NEUTRONS ON A = 107 Z = 47

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

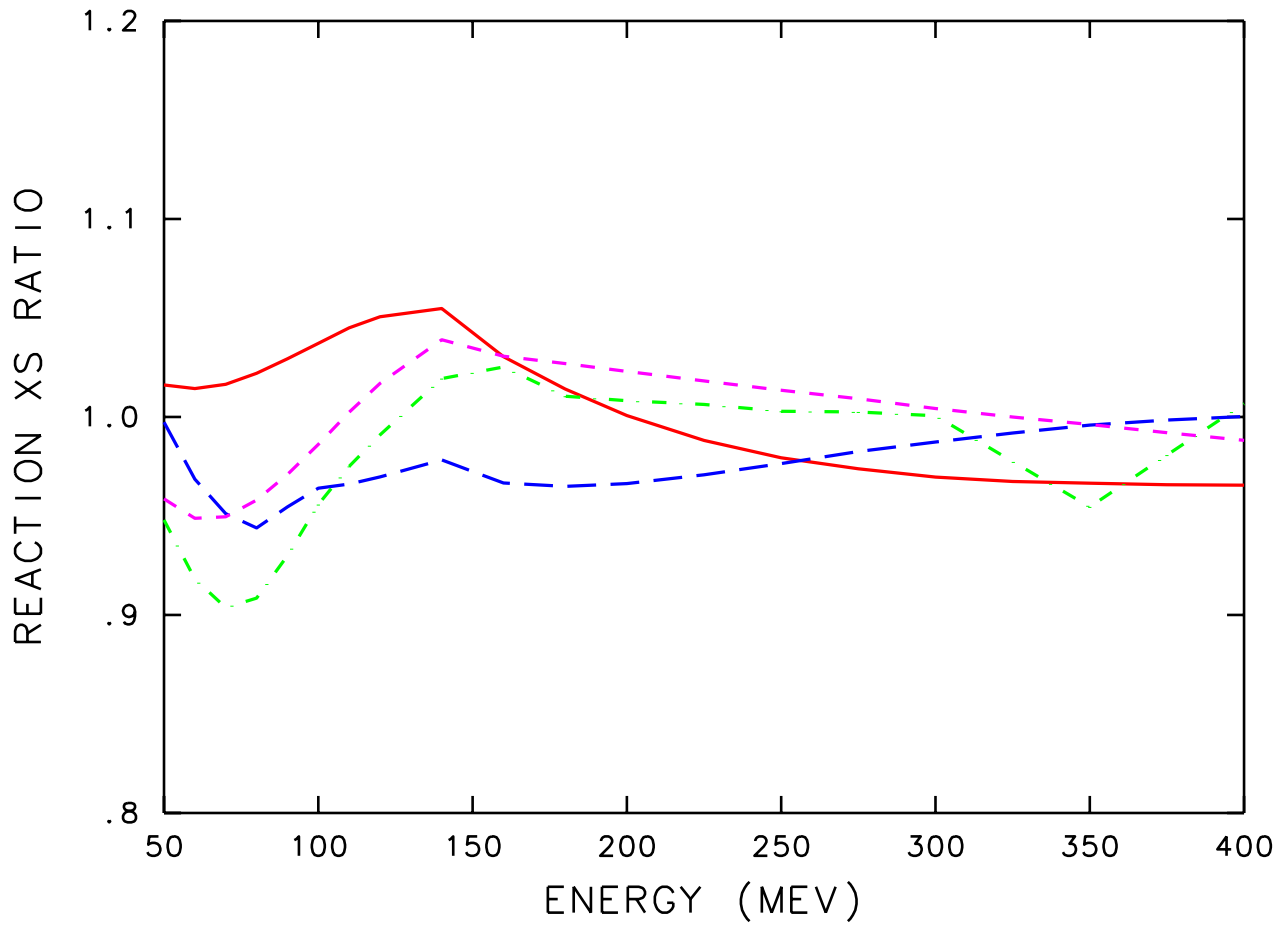


PROTONS ON A = 138 Z = 56

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

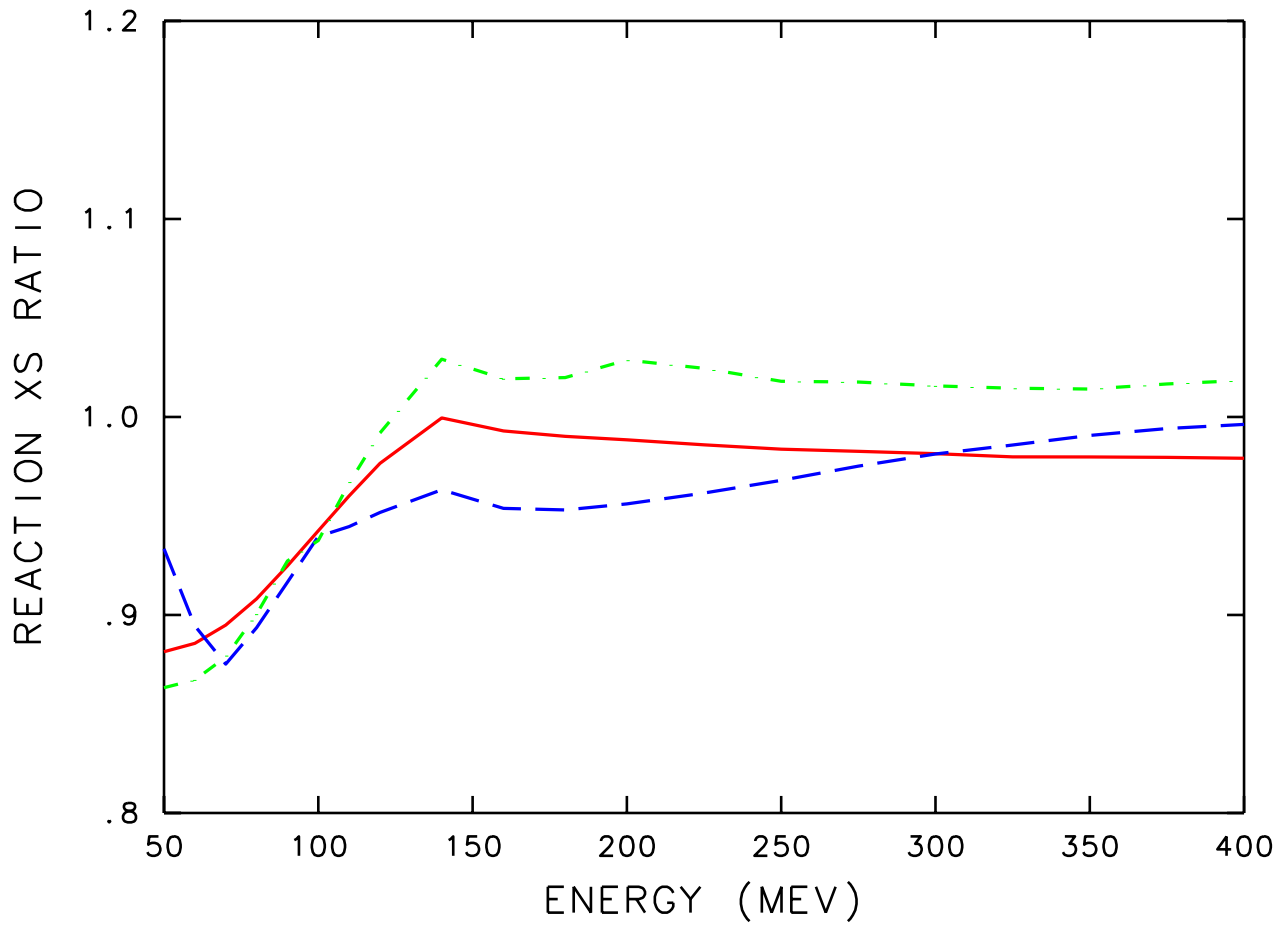


NEUTRONS ON A = 138 Z = 56

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

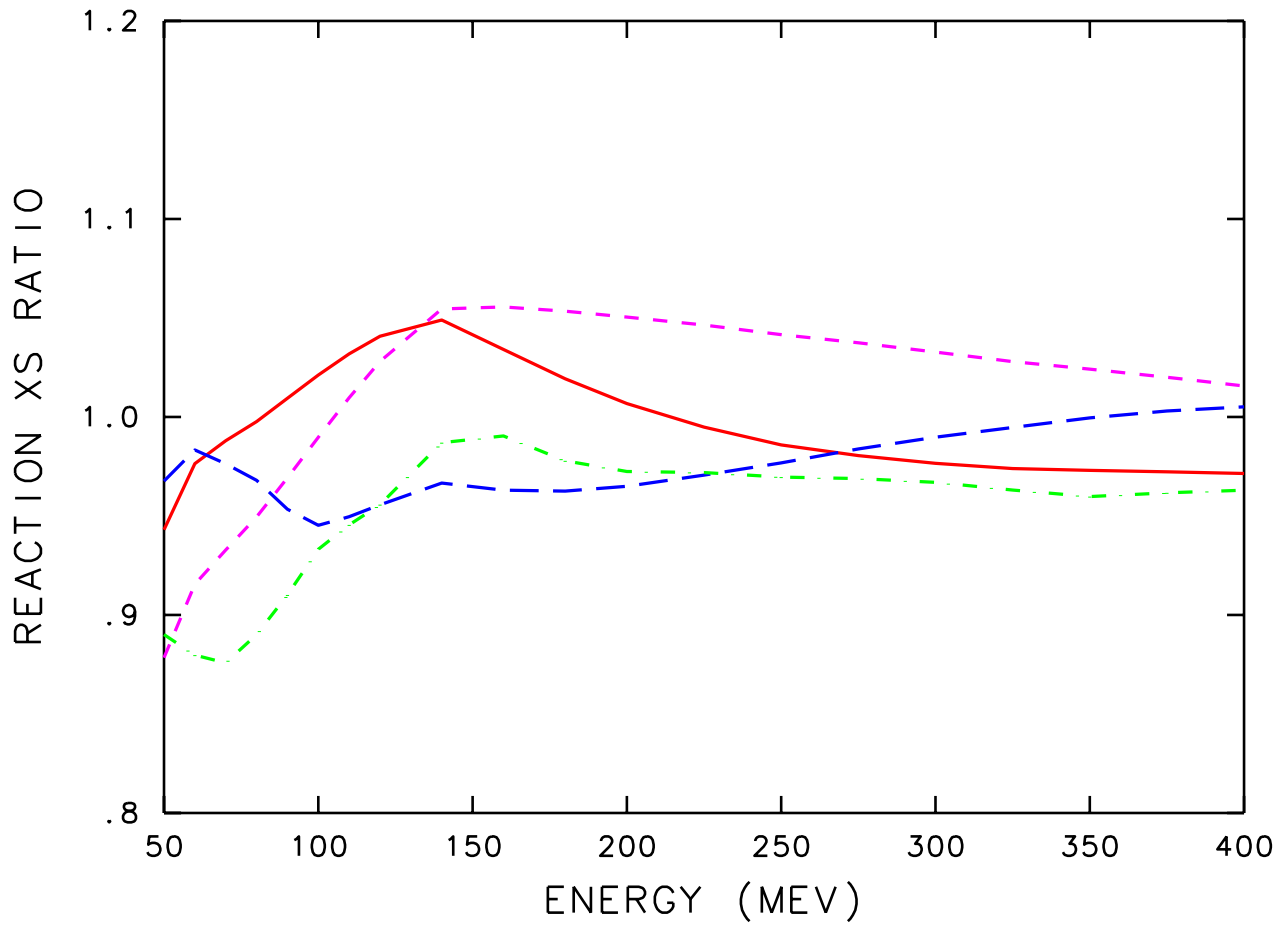


PROTONS ON A = 208 Z = 82

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH W&A: MAGENTA DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

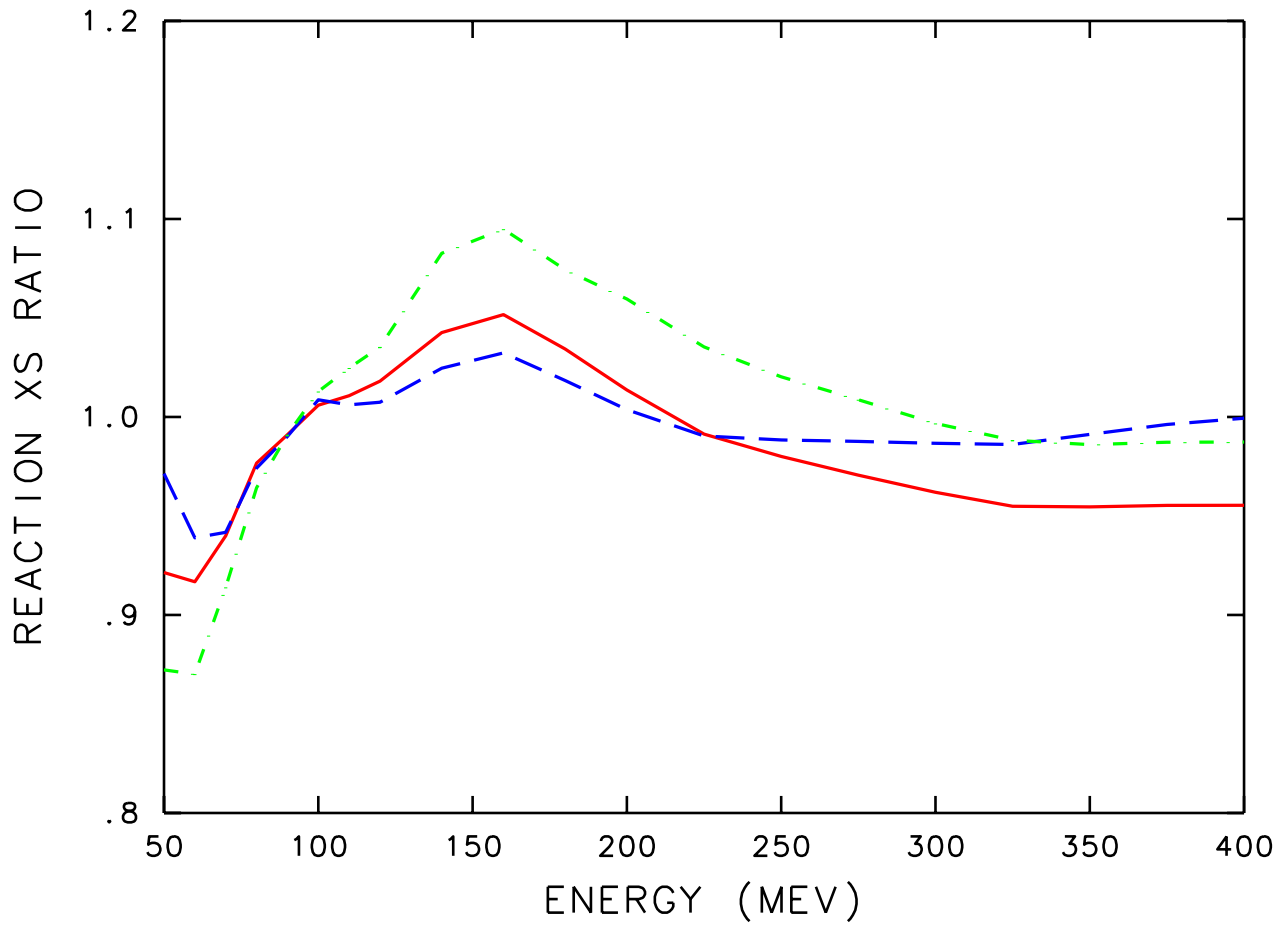


NEUTRONS ON A = 208 Z = 82

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO OPTICAL MODEL CALCULATIONS

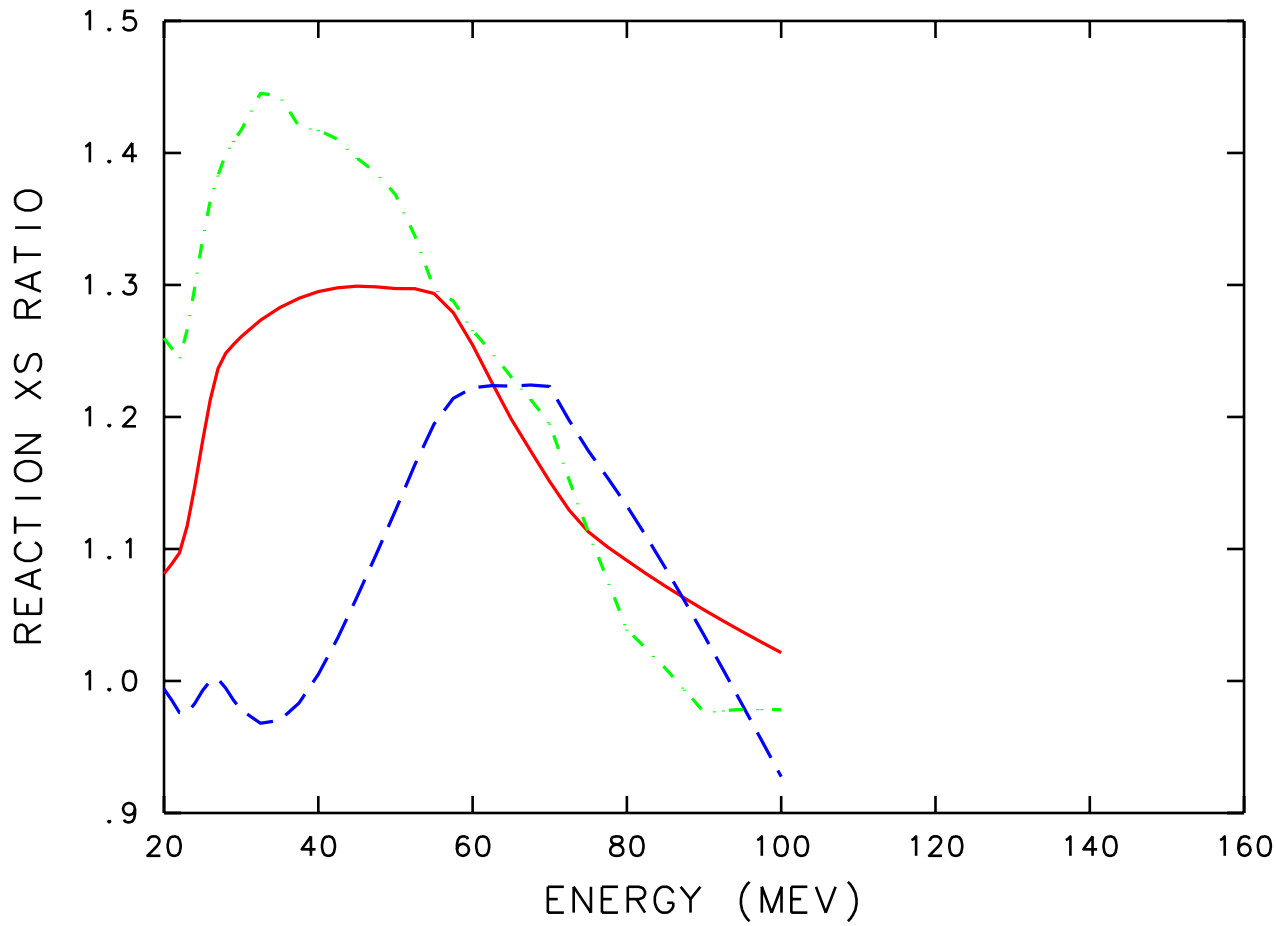


NEUTRONS ON A = 9 Z = 4

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

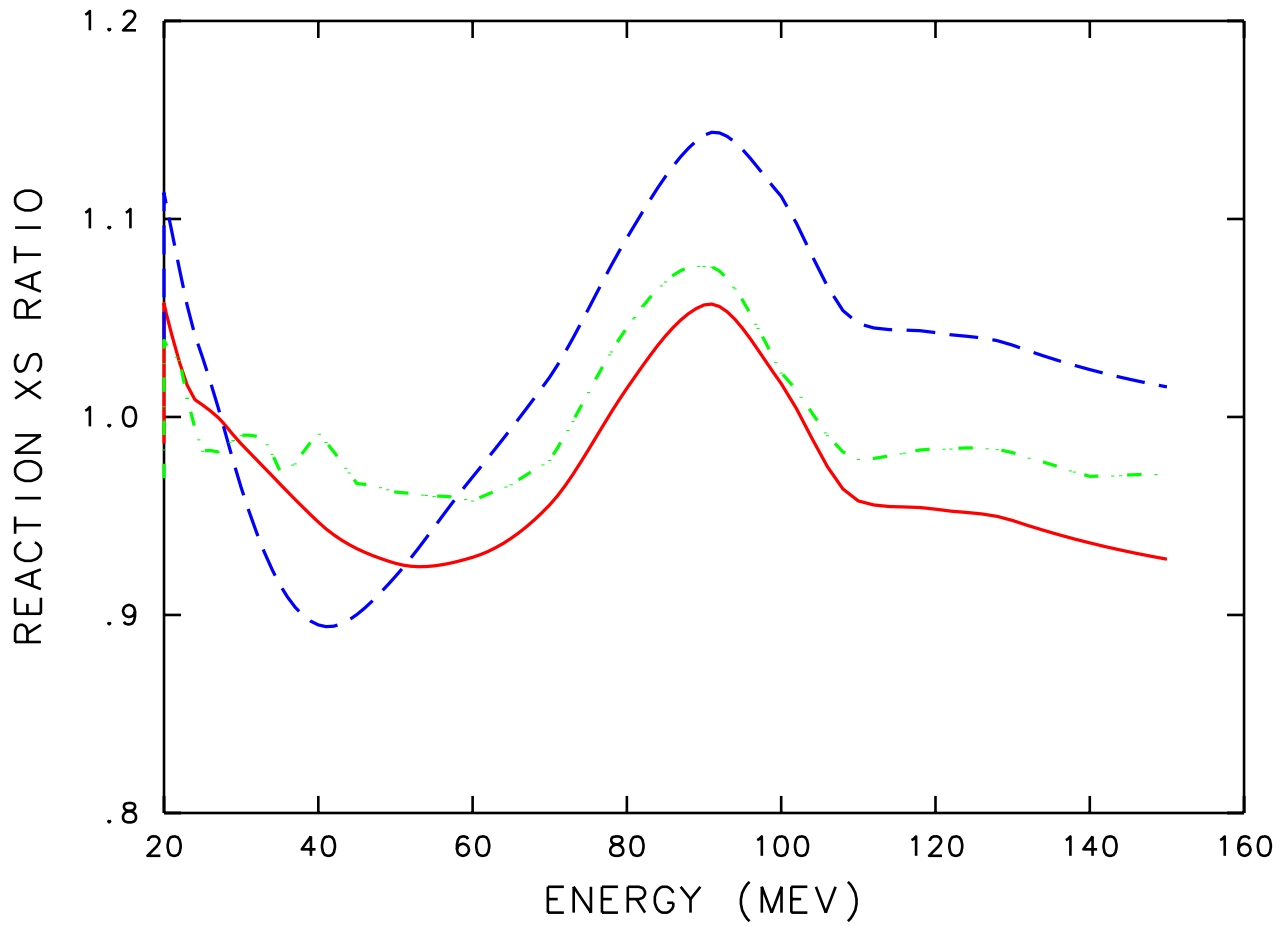


NEUTRONS ON A = 12 Z = 6

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

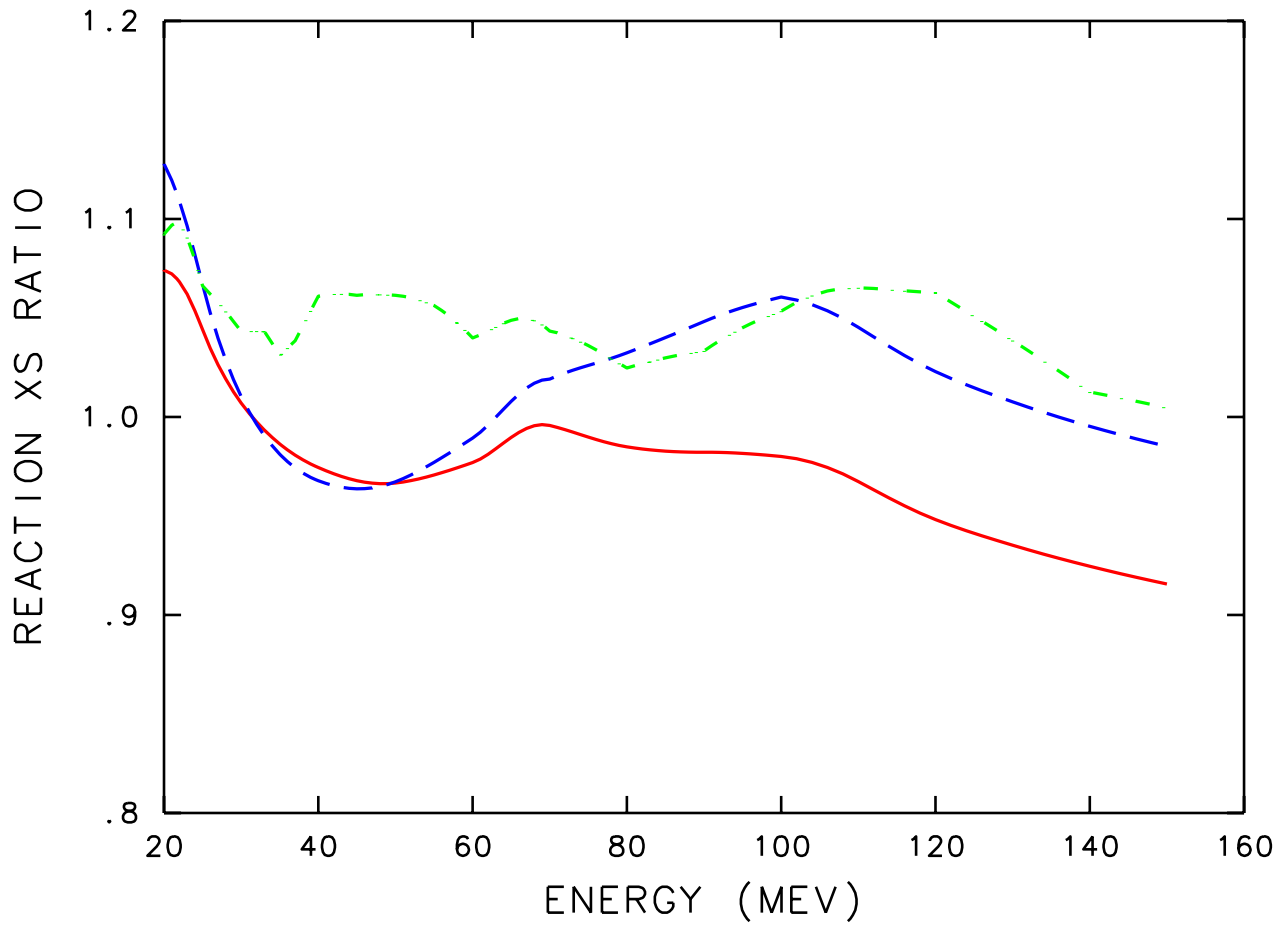


NEUTRONS ON A = 14 Z = 7

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

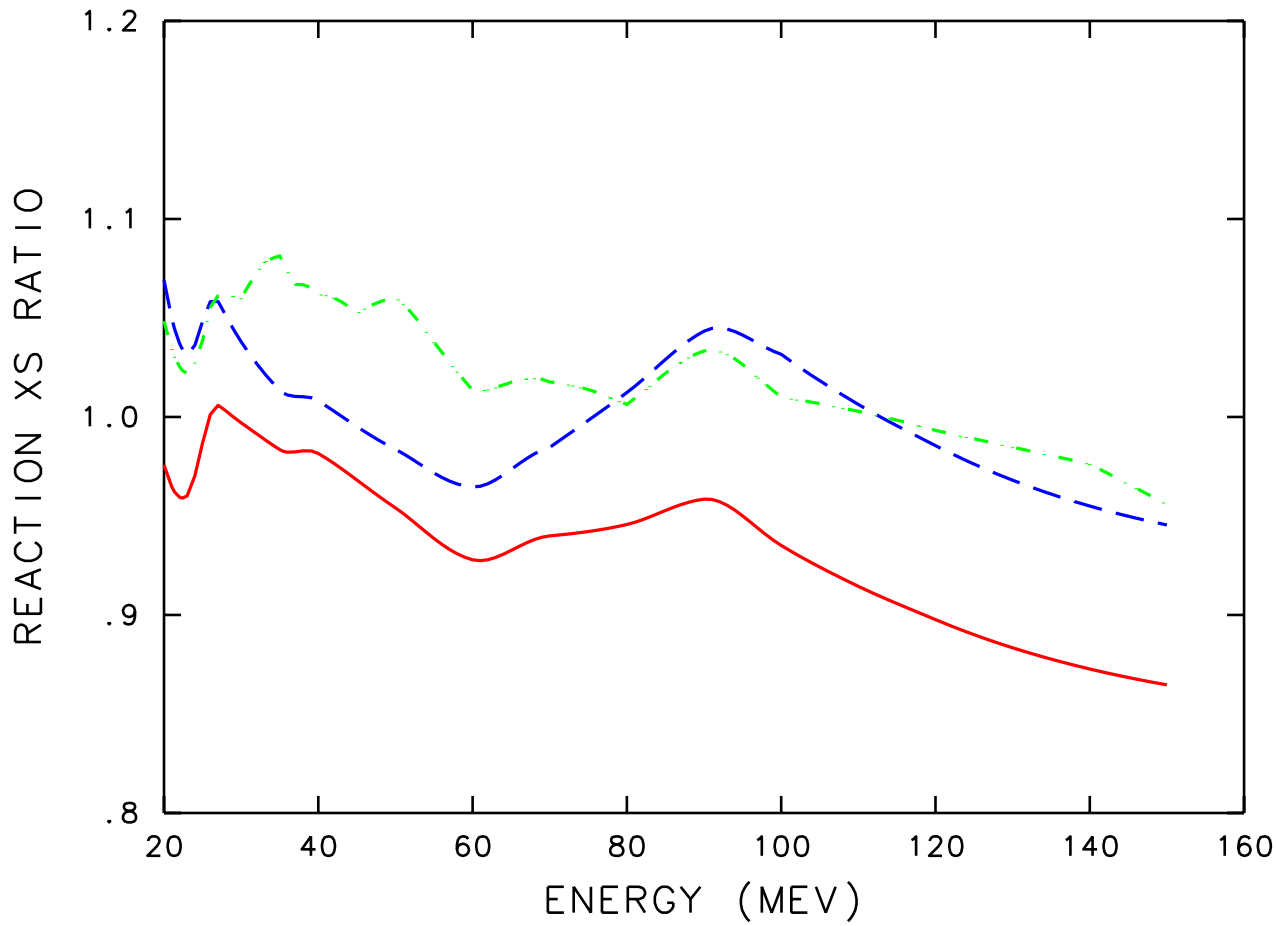


NEUTRONS ON A = 16 Z = 8

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

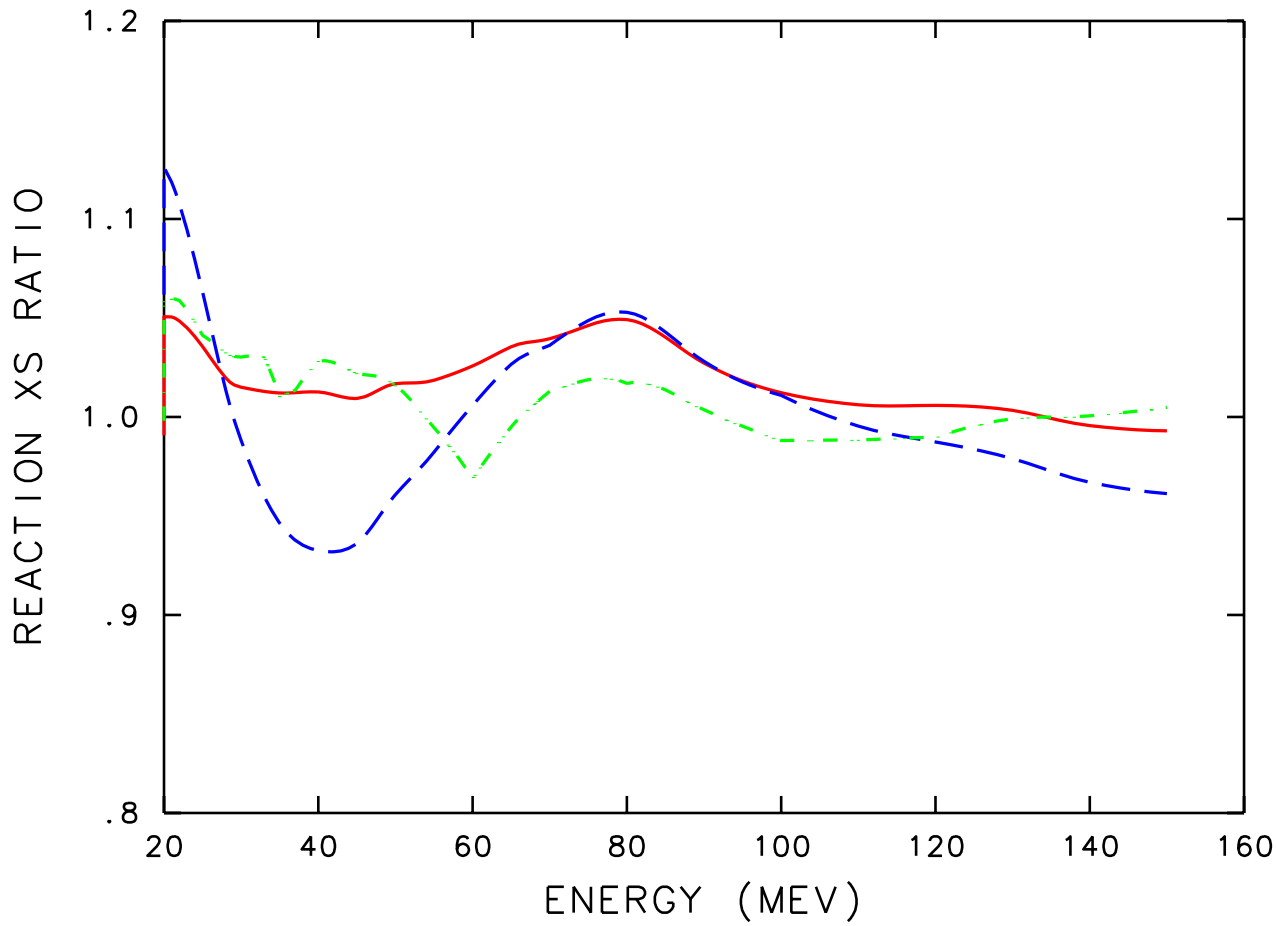


NEUTRONS ON A = 27 Z = 13

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

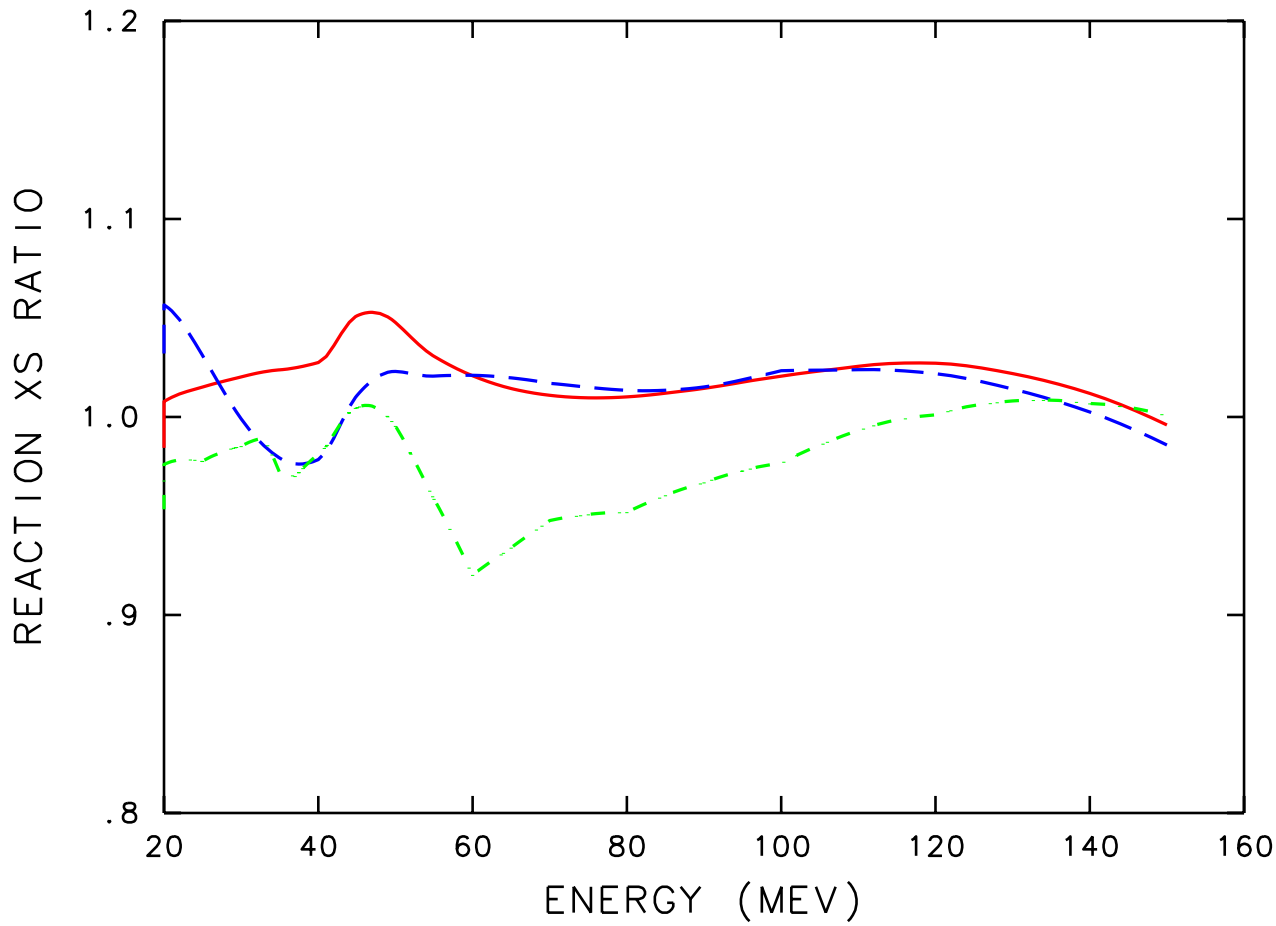


NEUTRONS ON A = 28 Z = 14

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

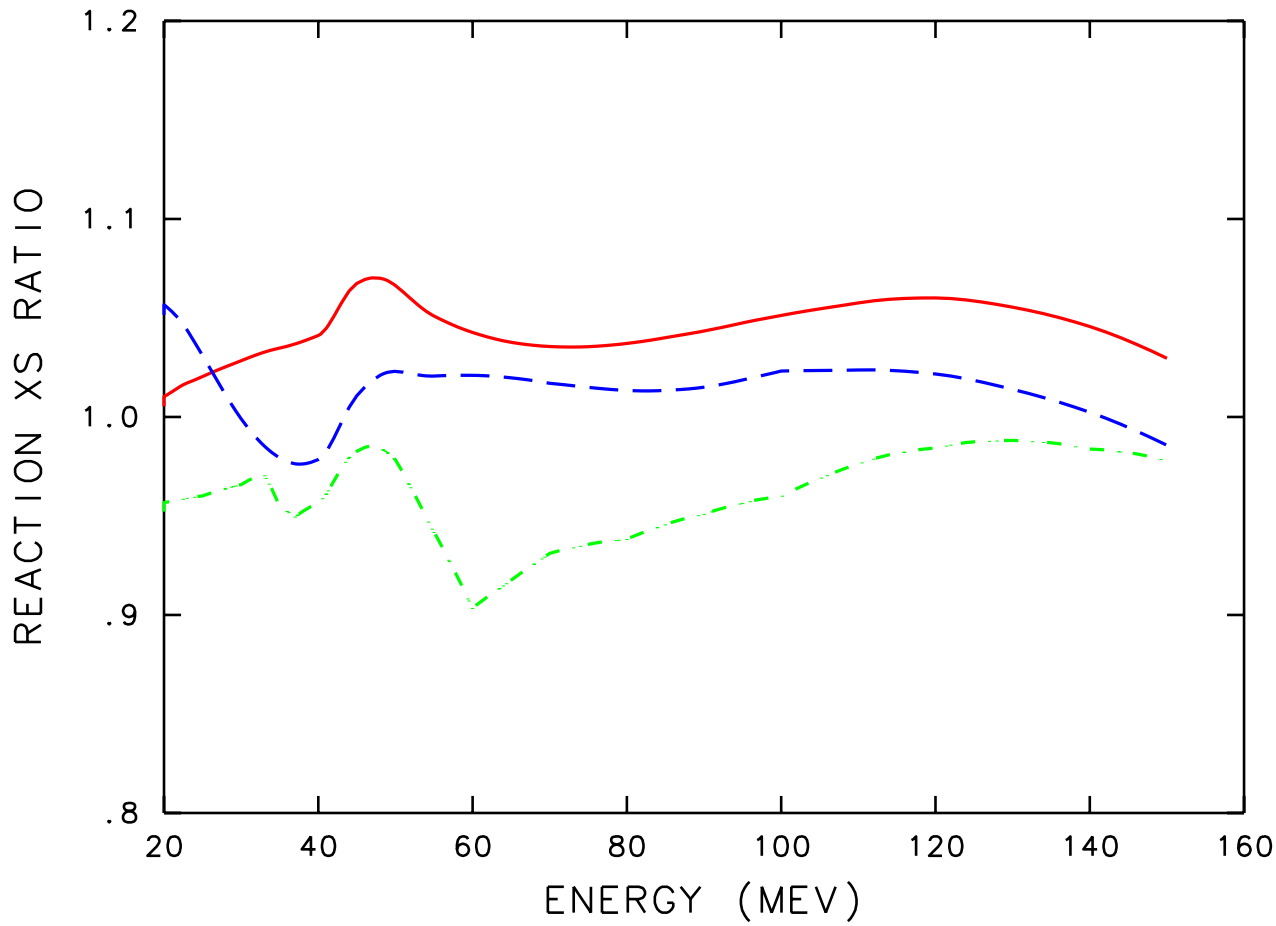


NEUTRONS ON A = 29 Z = 14

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

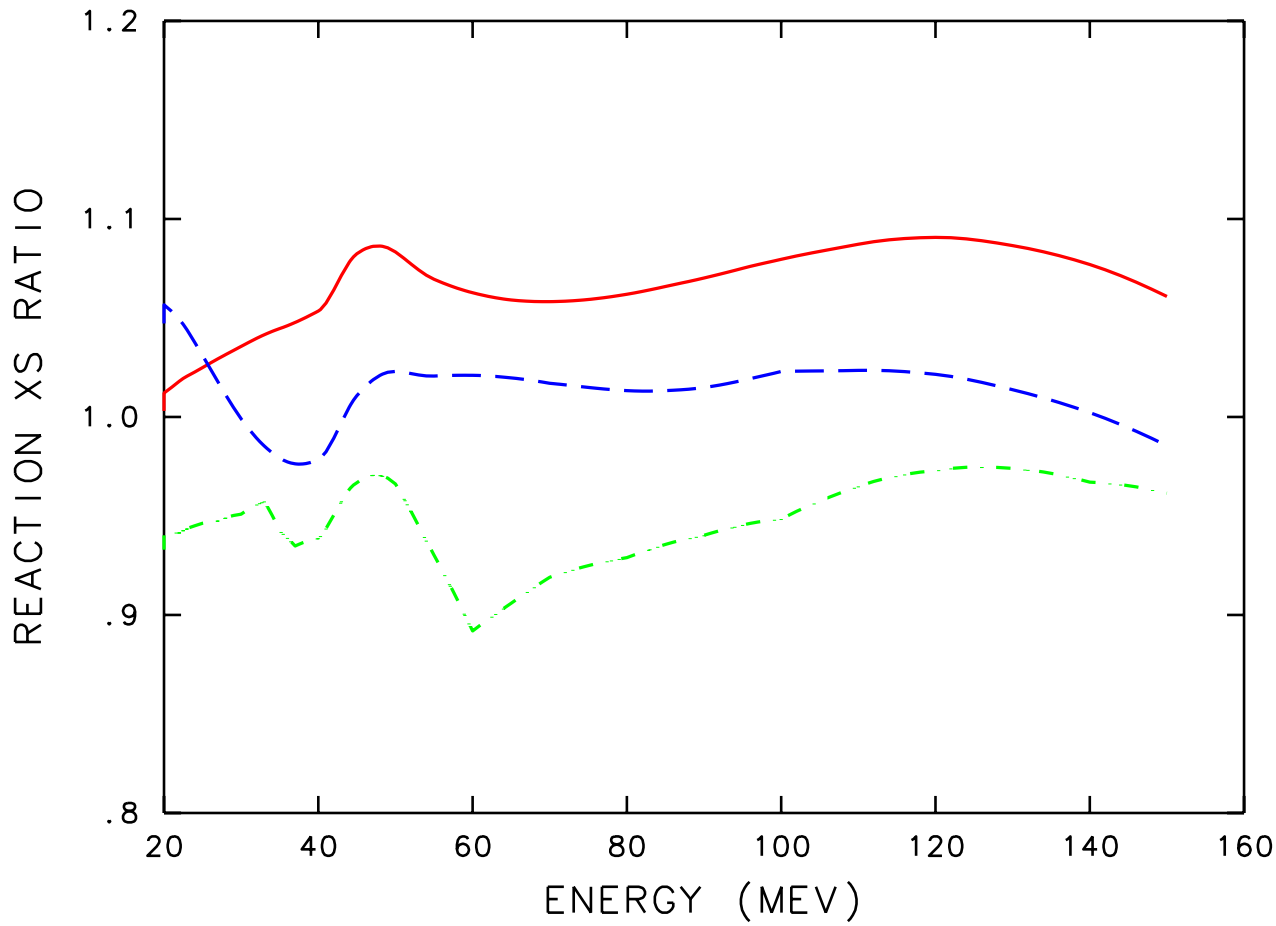


NEUTRONS ON A = 30 Z = 14

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

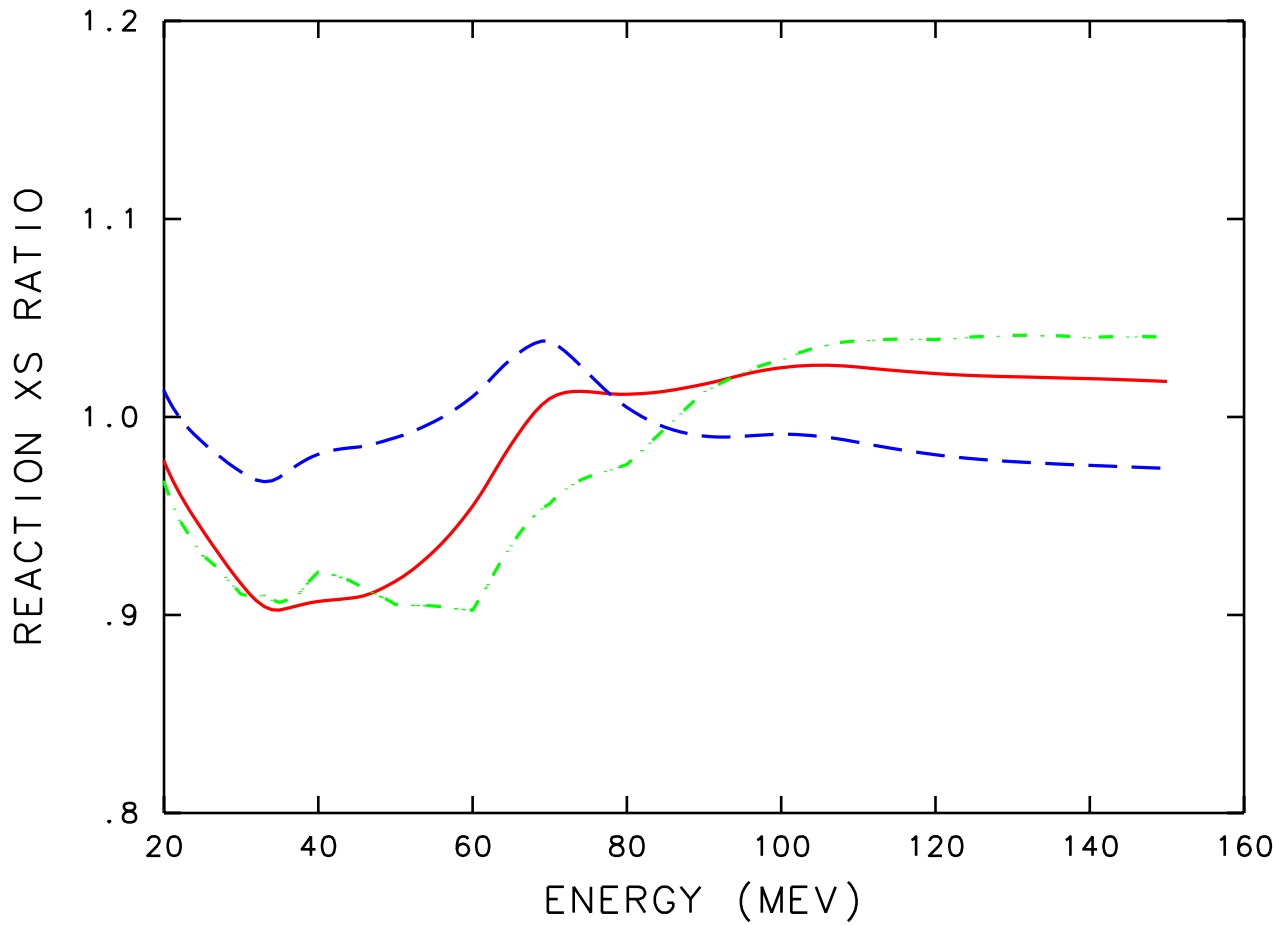


NEUTRONS ON A = 40 Z = 20

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

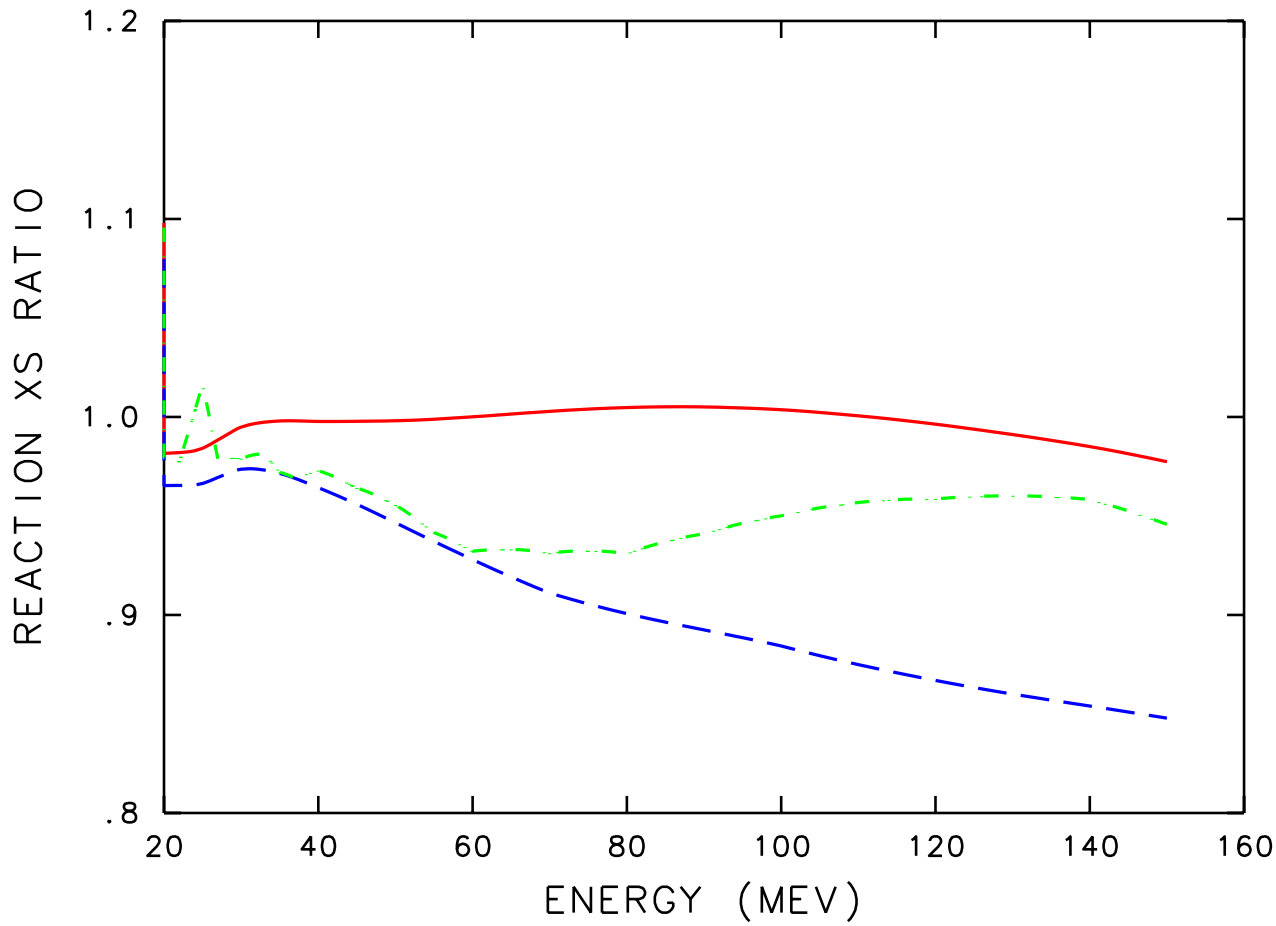


NEUTRONS ON A = 50 Z = 24

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

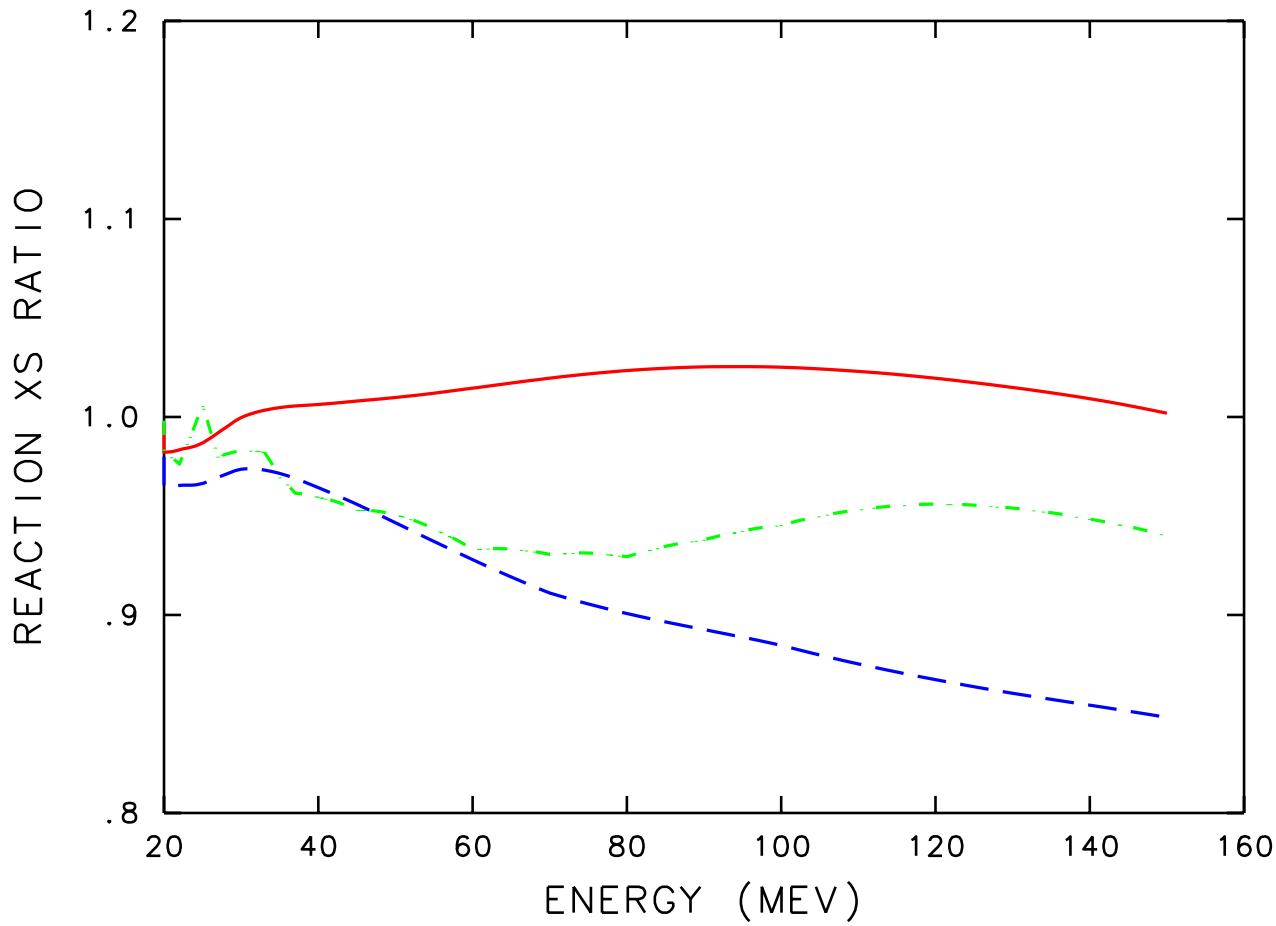


NEUTRONS ON A = 52 Z = 24

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

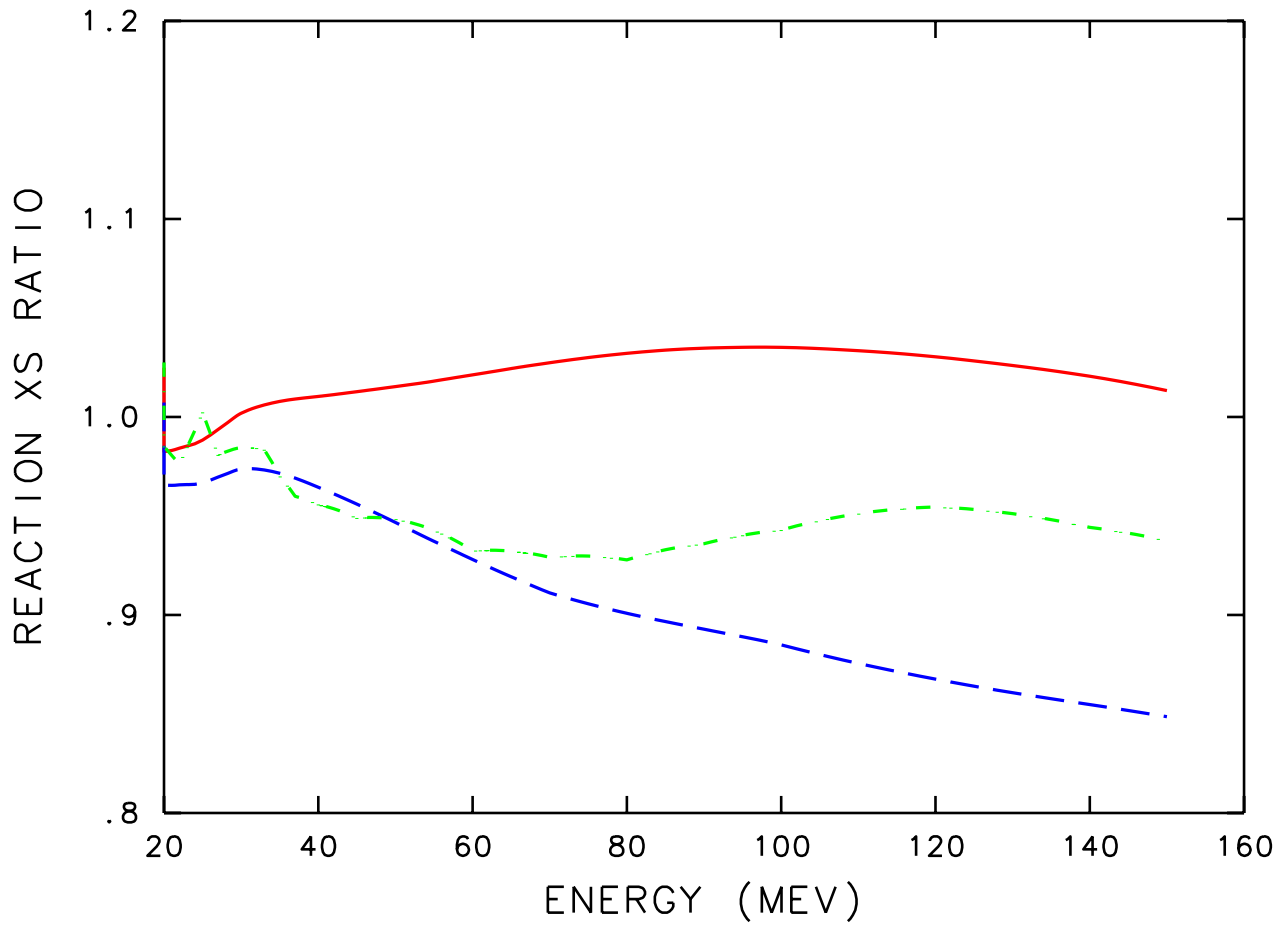


NEUTRONS ON A = 53 Z = 24

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

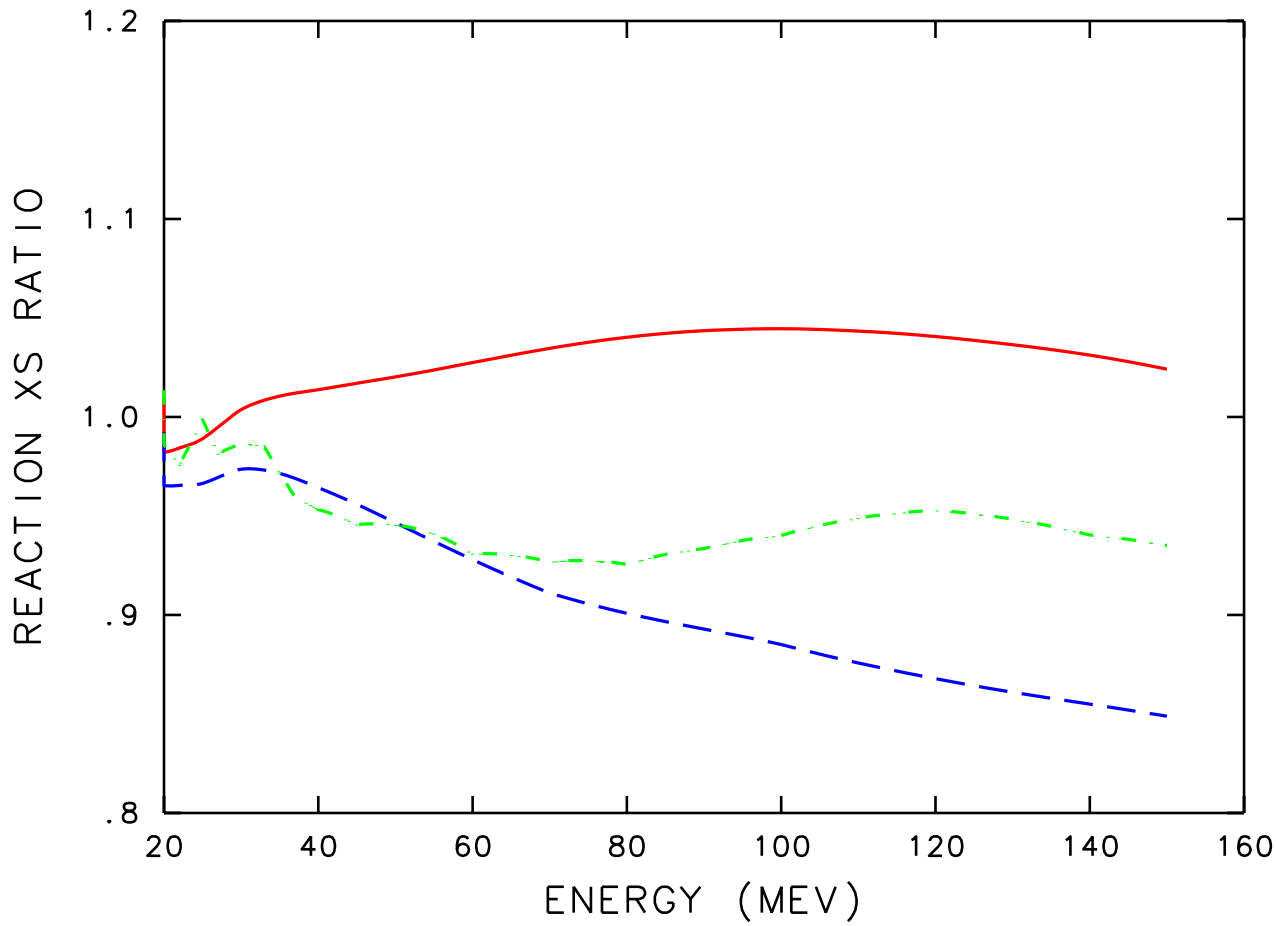


NEUTRONS ON A = 54 Z = 24

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

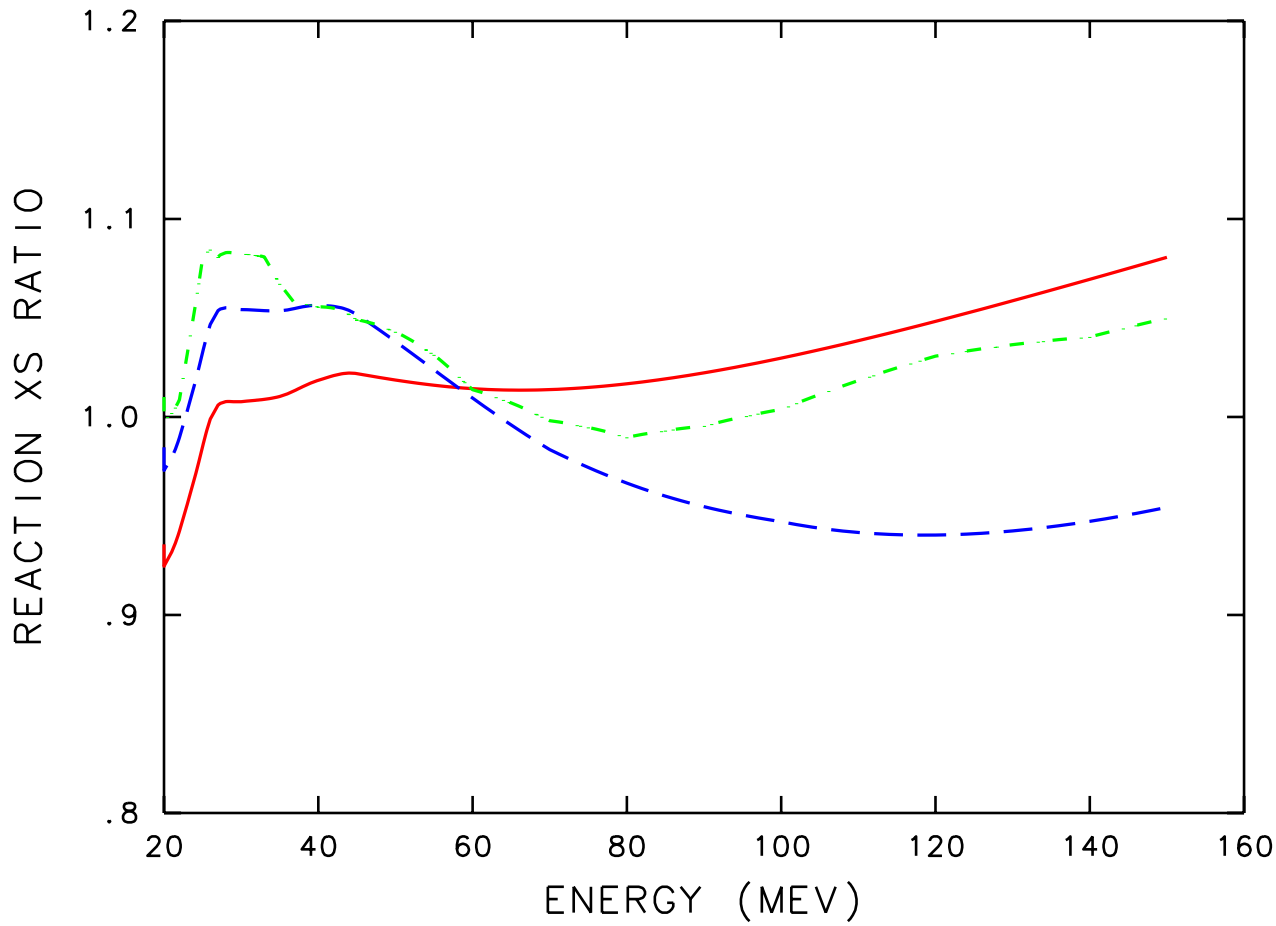


NEUTRONS ON A = 54 Z = 26

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

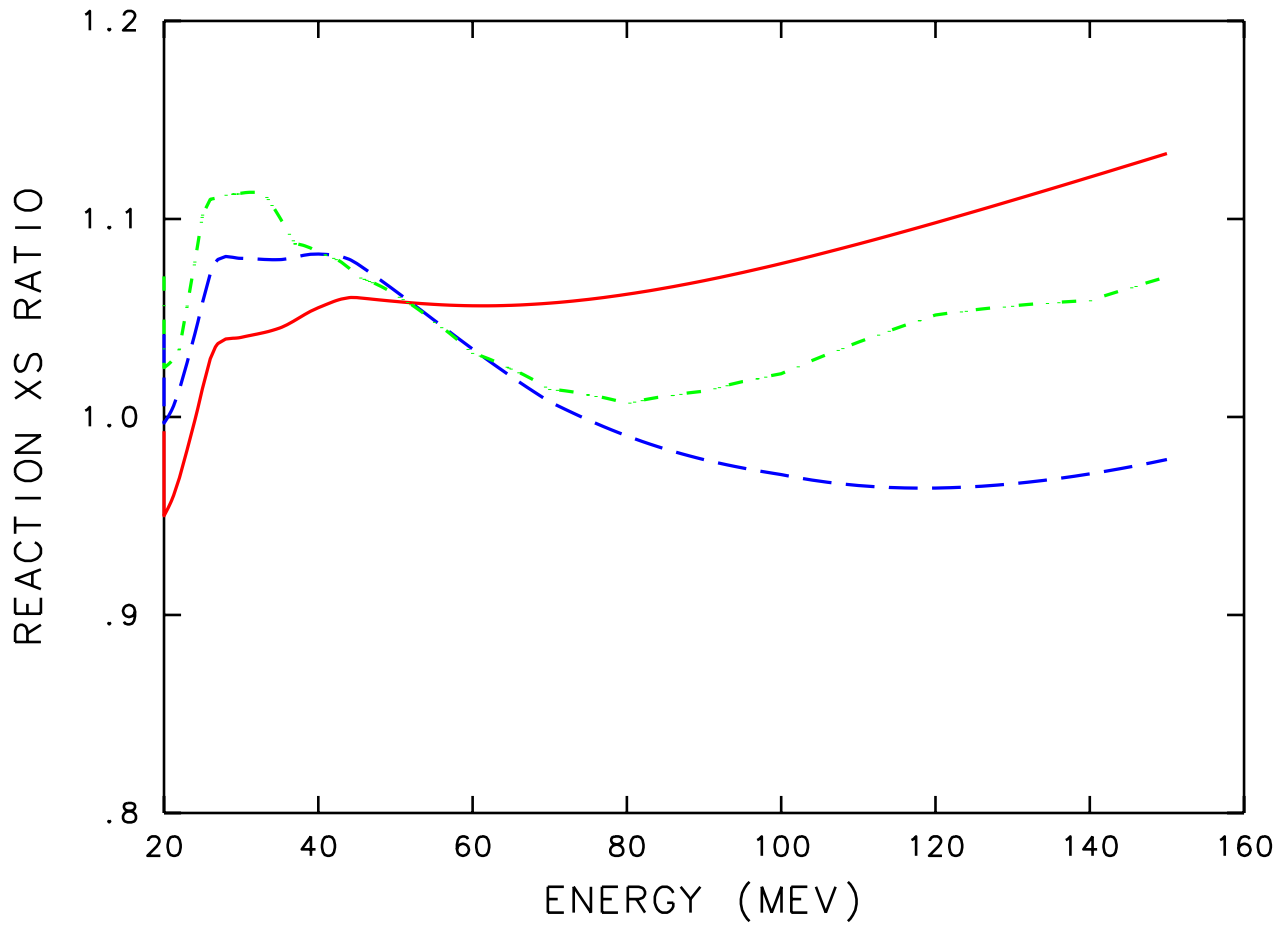


NEUTRONS ON A = 56 Z = 26

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

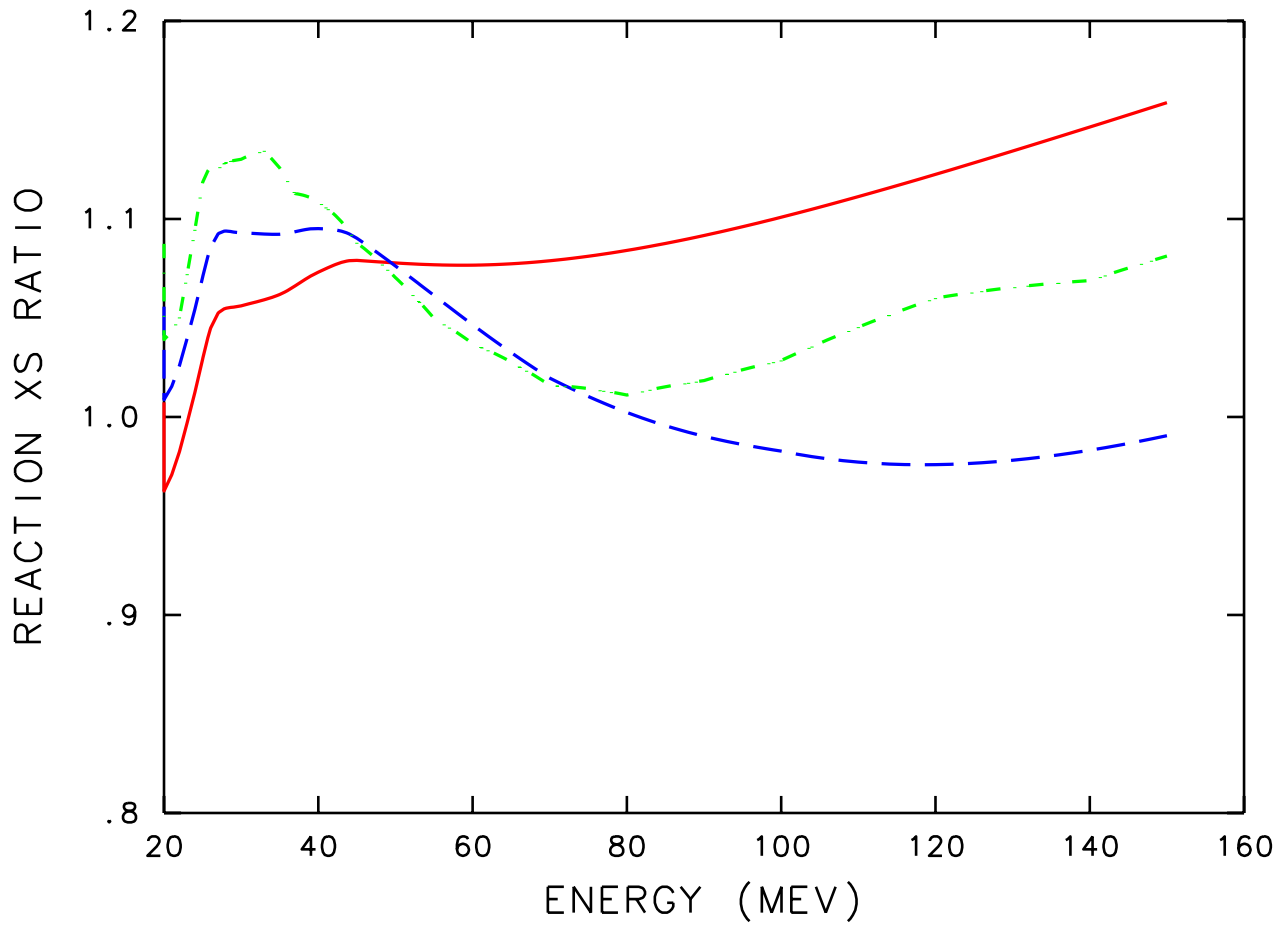


NEUTRONS ON A = 57 Z = 26

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

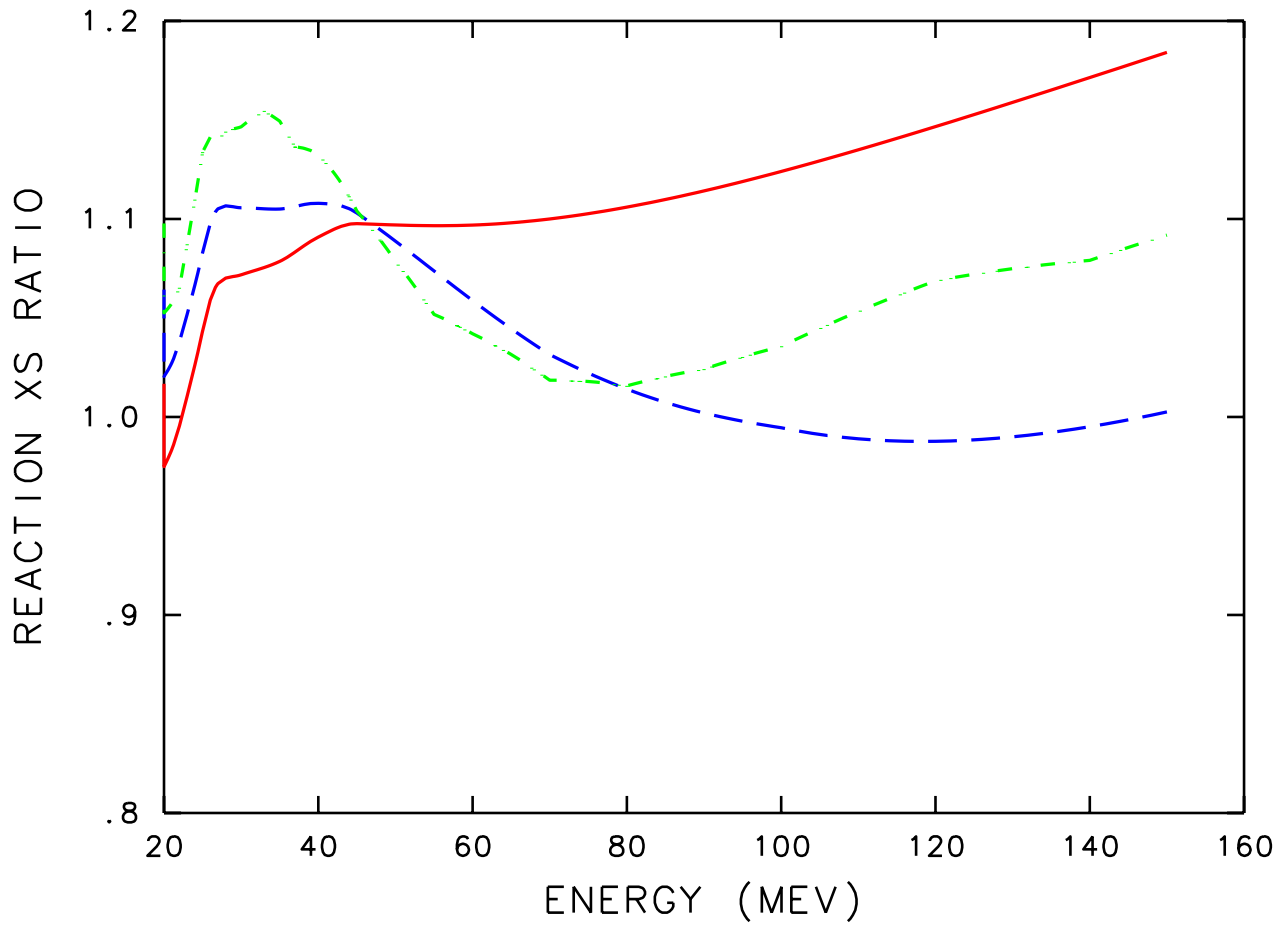


NEUTRONS ON A = 58 Z = 26

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

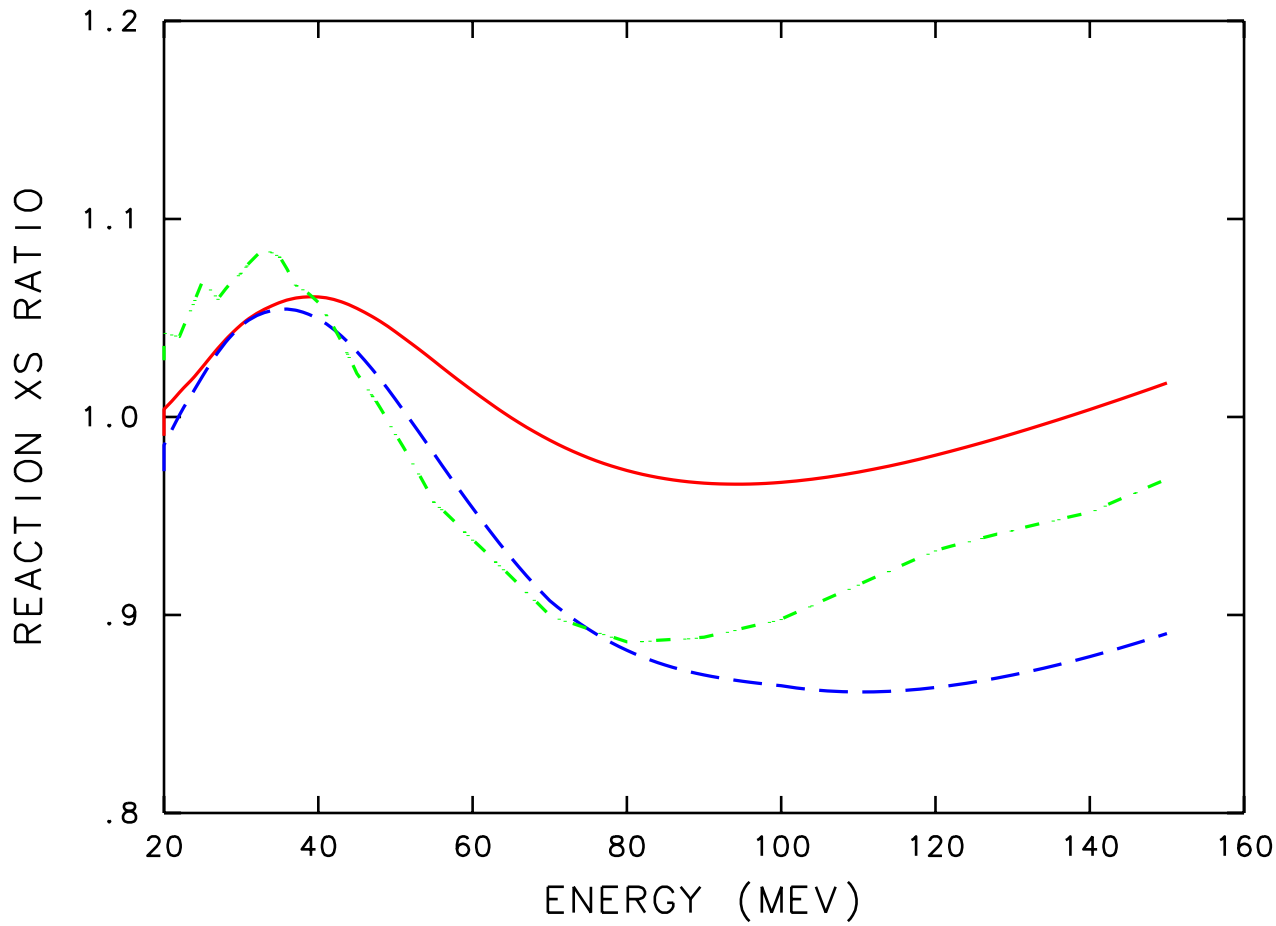


NEUTRONS ON A = 58 Z = 28

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

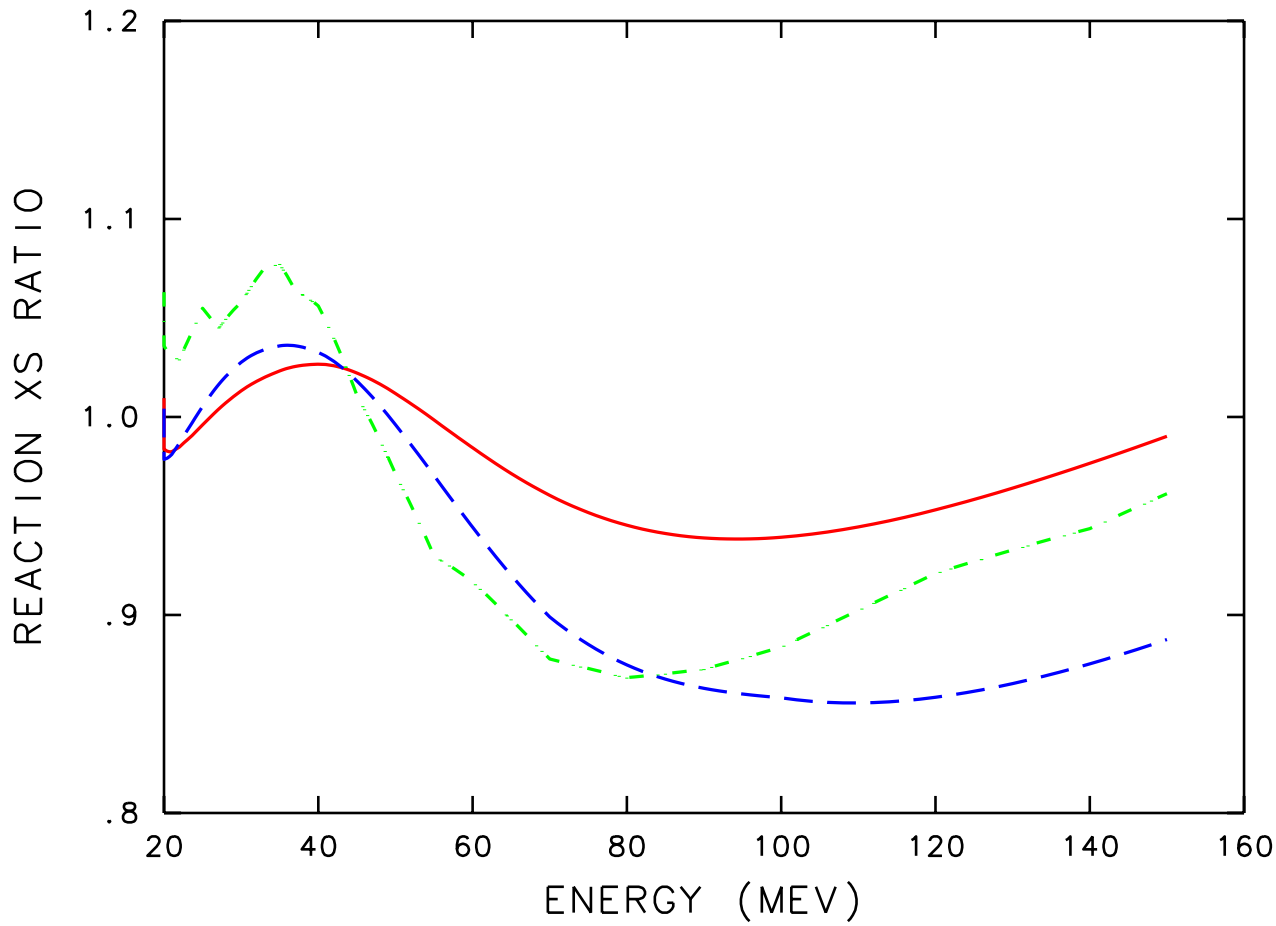


NEUTRONS ON A = 60 Z = 28

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

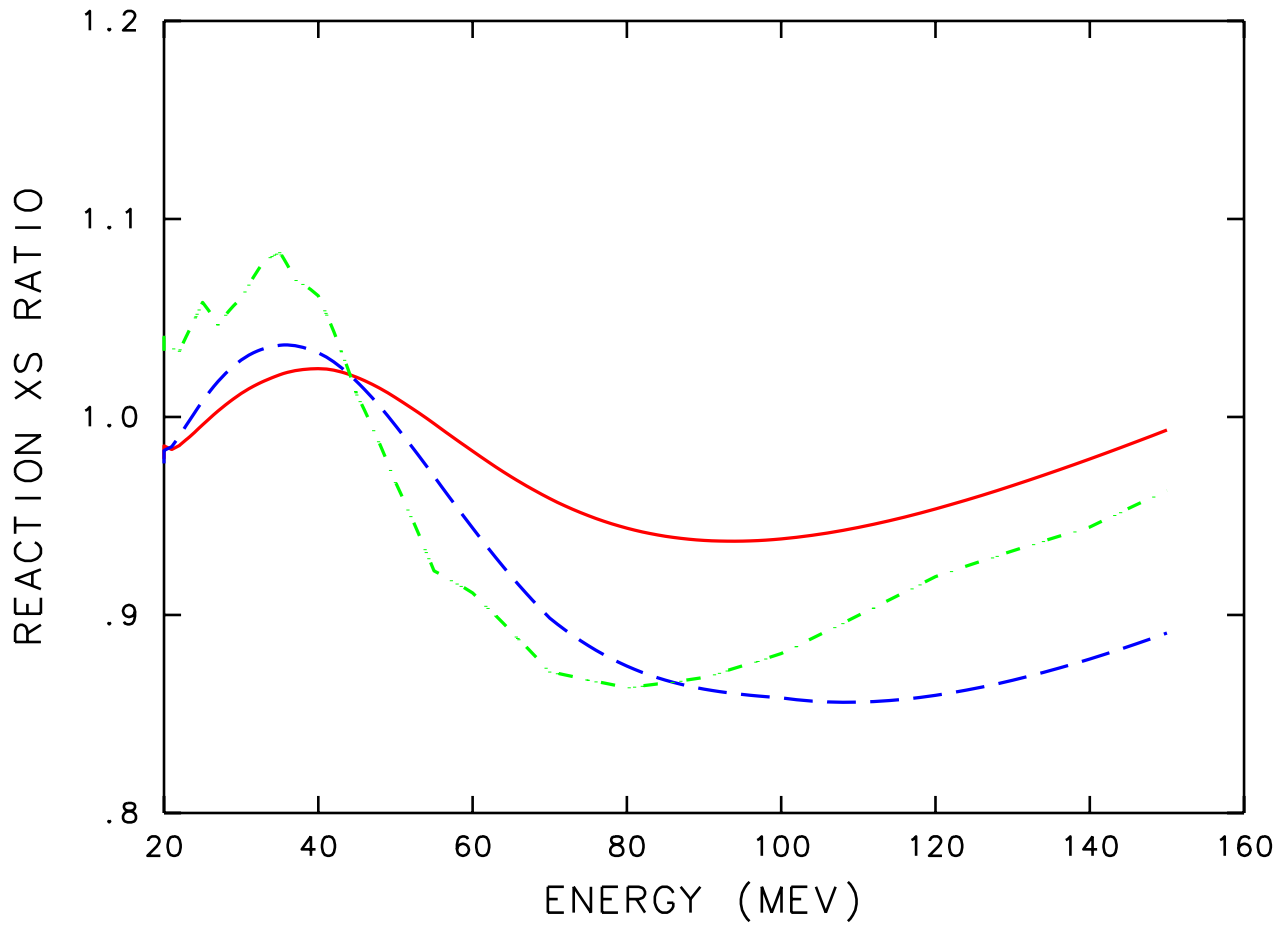


NEUTRONS ON A = 61 Z = 28

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

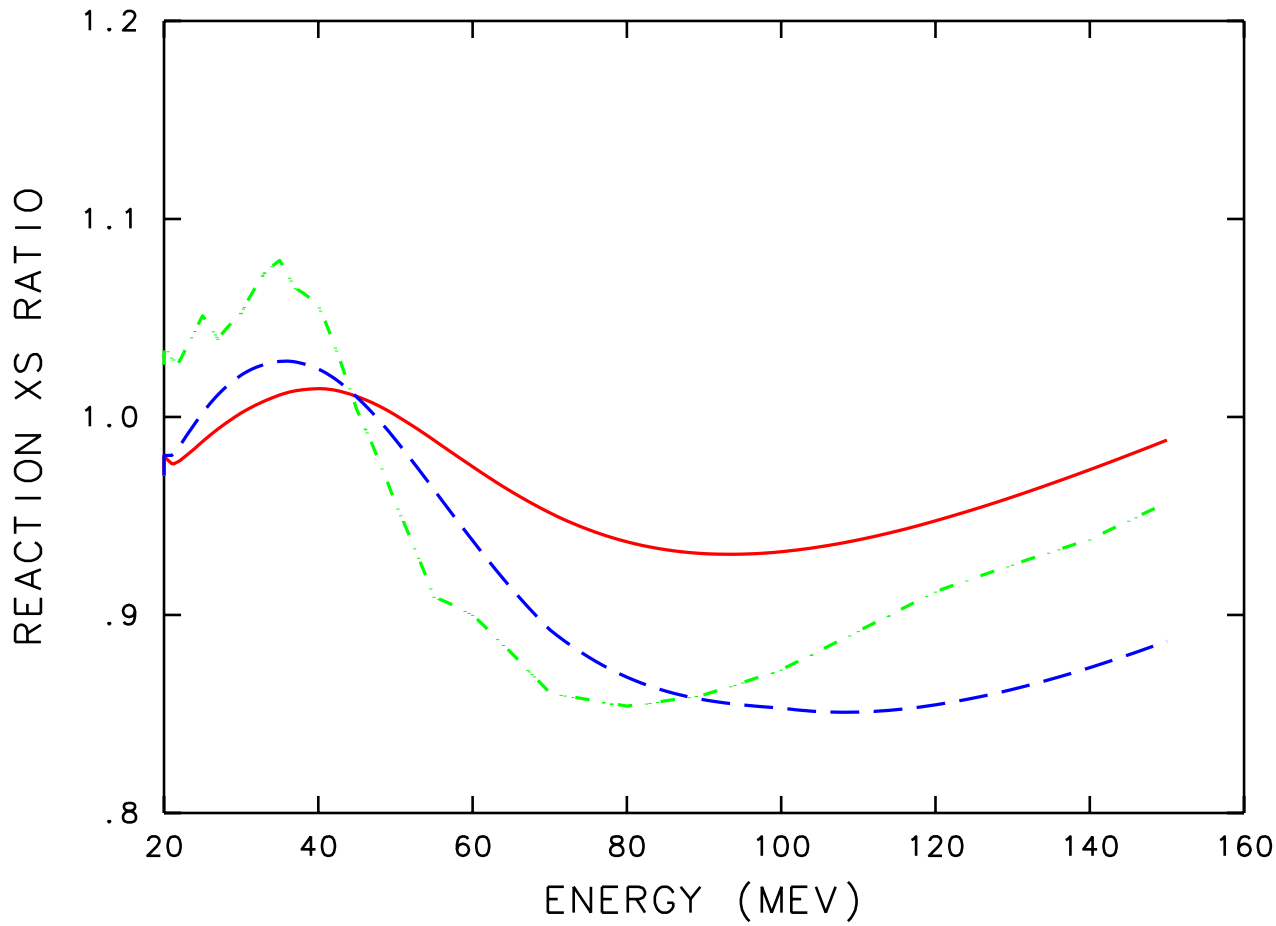


NEUTRONS ON A = 62 Z = 28

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

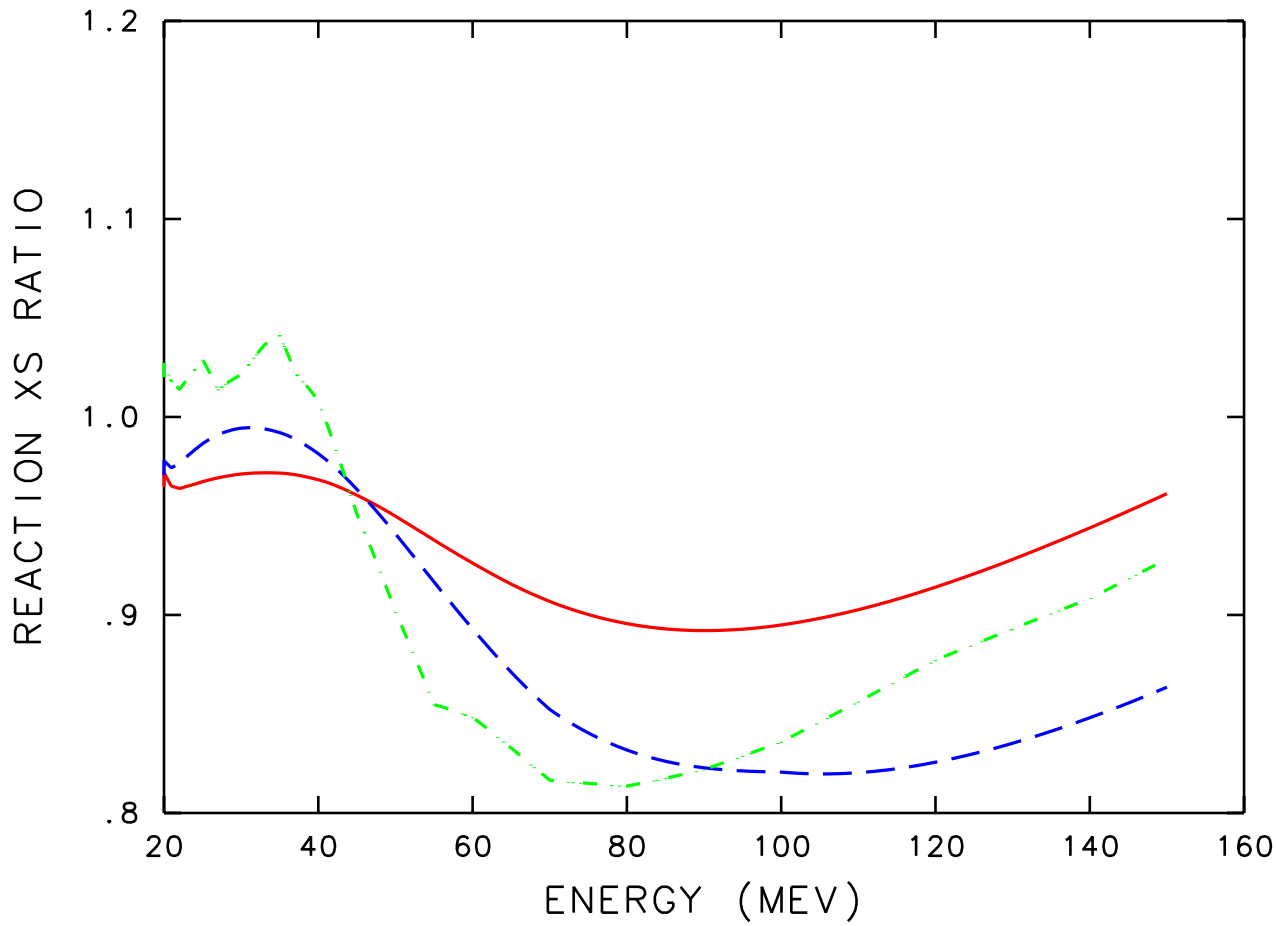


NEUTRONS ON A = 64 Z = 28

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

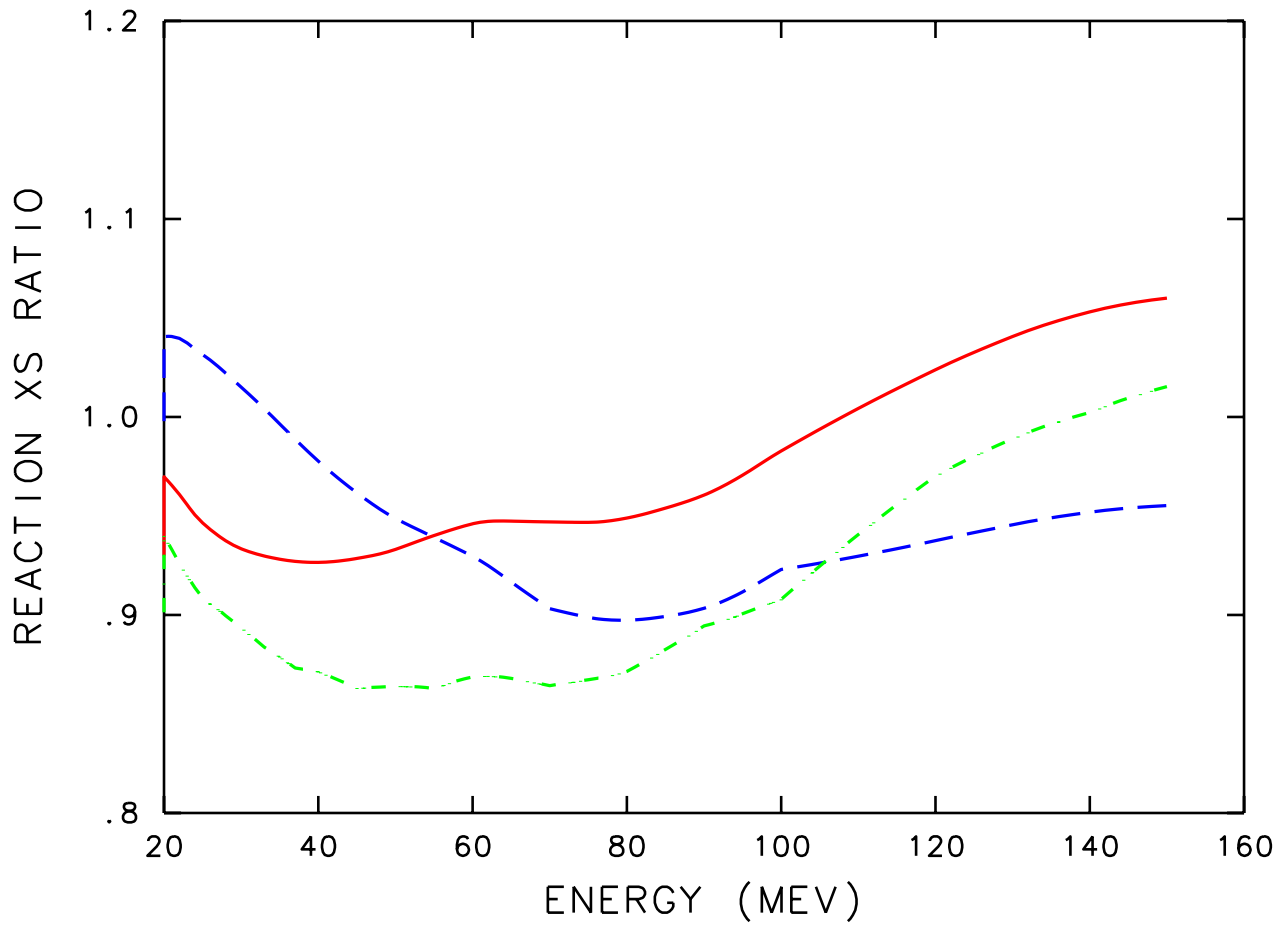


NEUTRONS ON A = 182 Z = 74

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

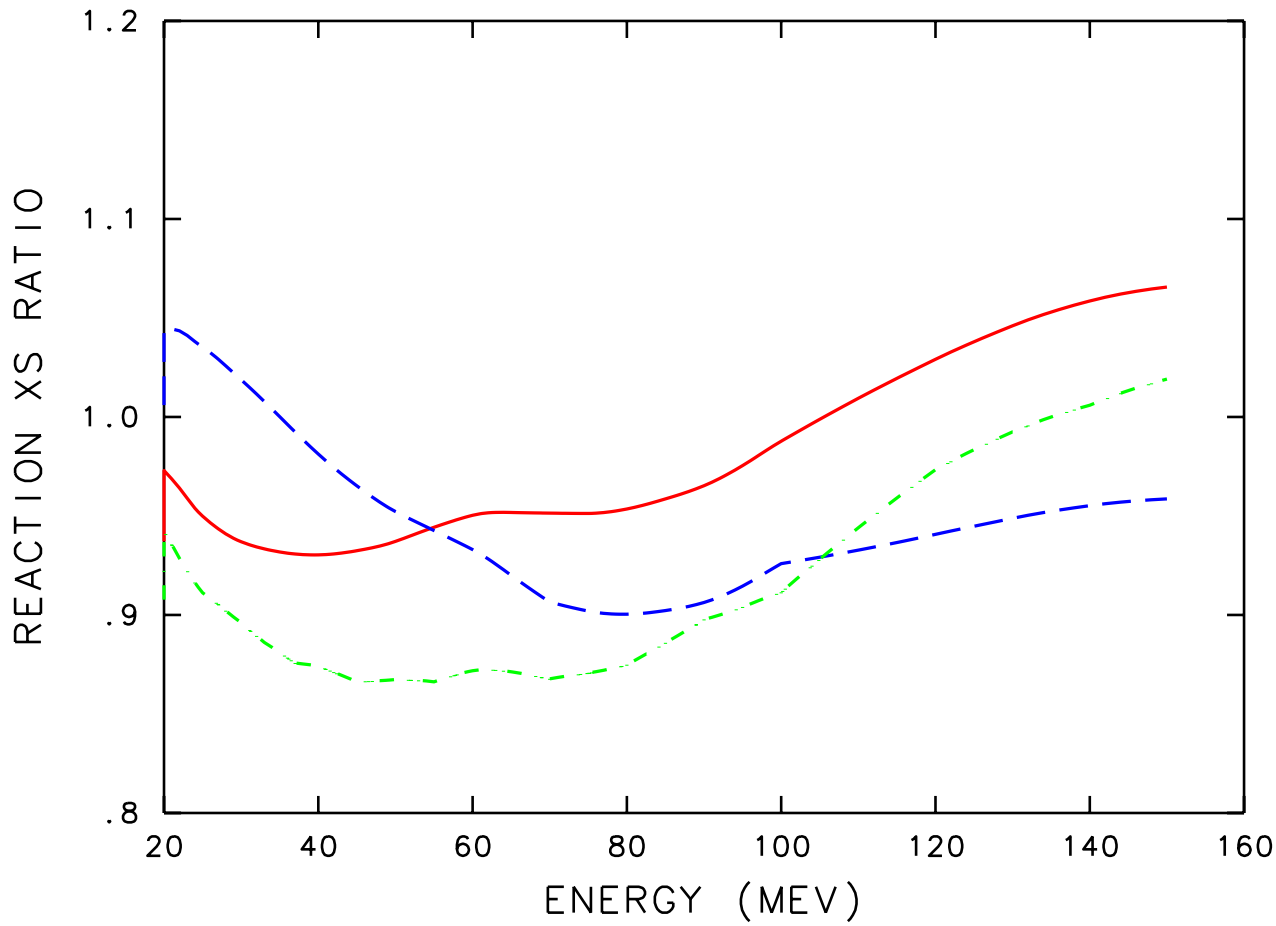


NEUTRONS ON A = 183 Z = 74

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

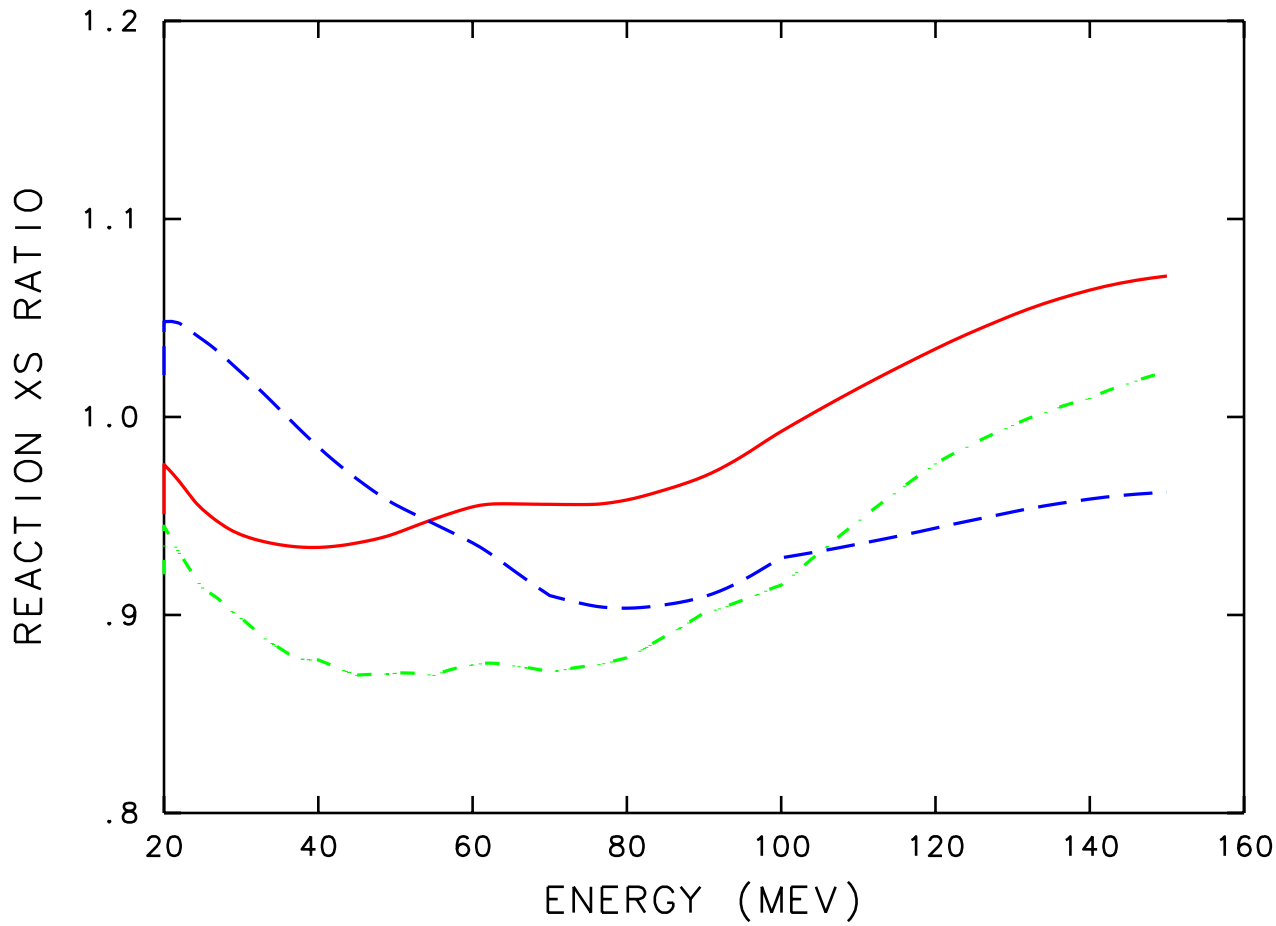


NEUTRONS ON A = 184 Z = 74

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

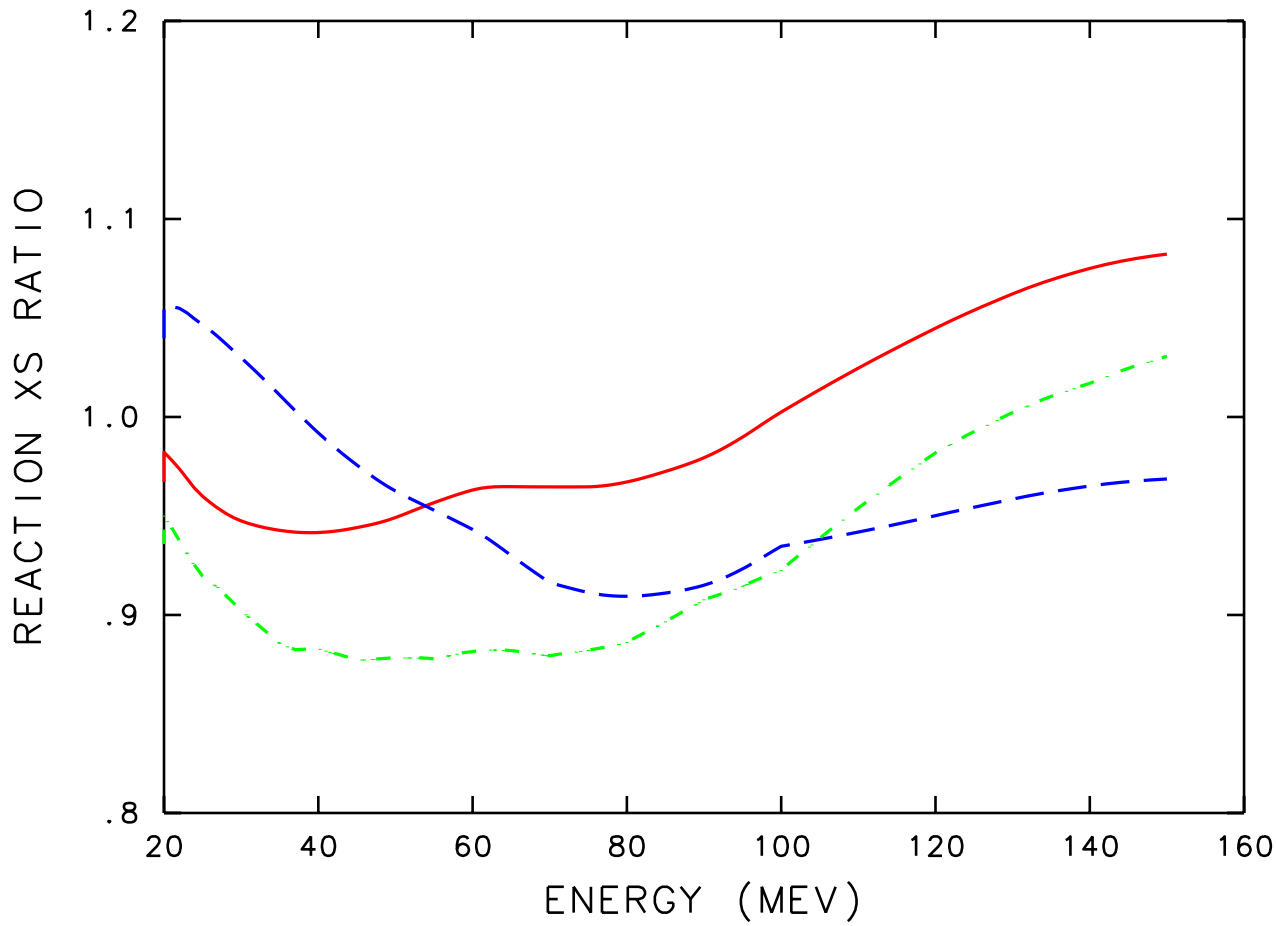


NEUTRONS ON A = 186 Z = 74

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

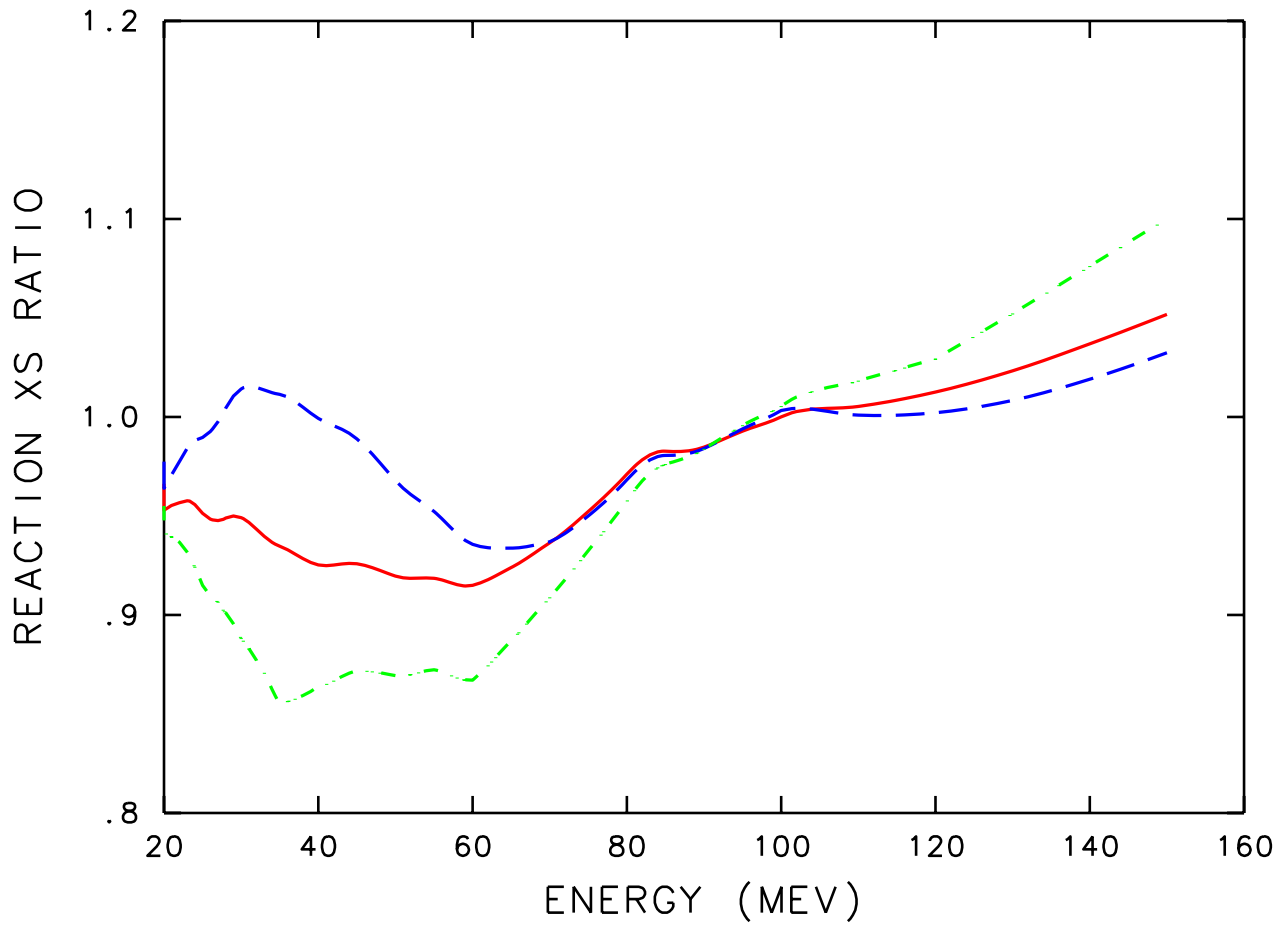


NEUTRONS ON A = 206 Z = 82

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

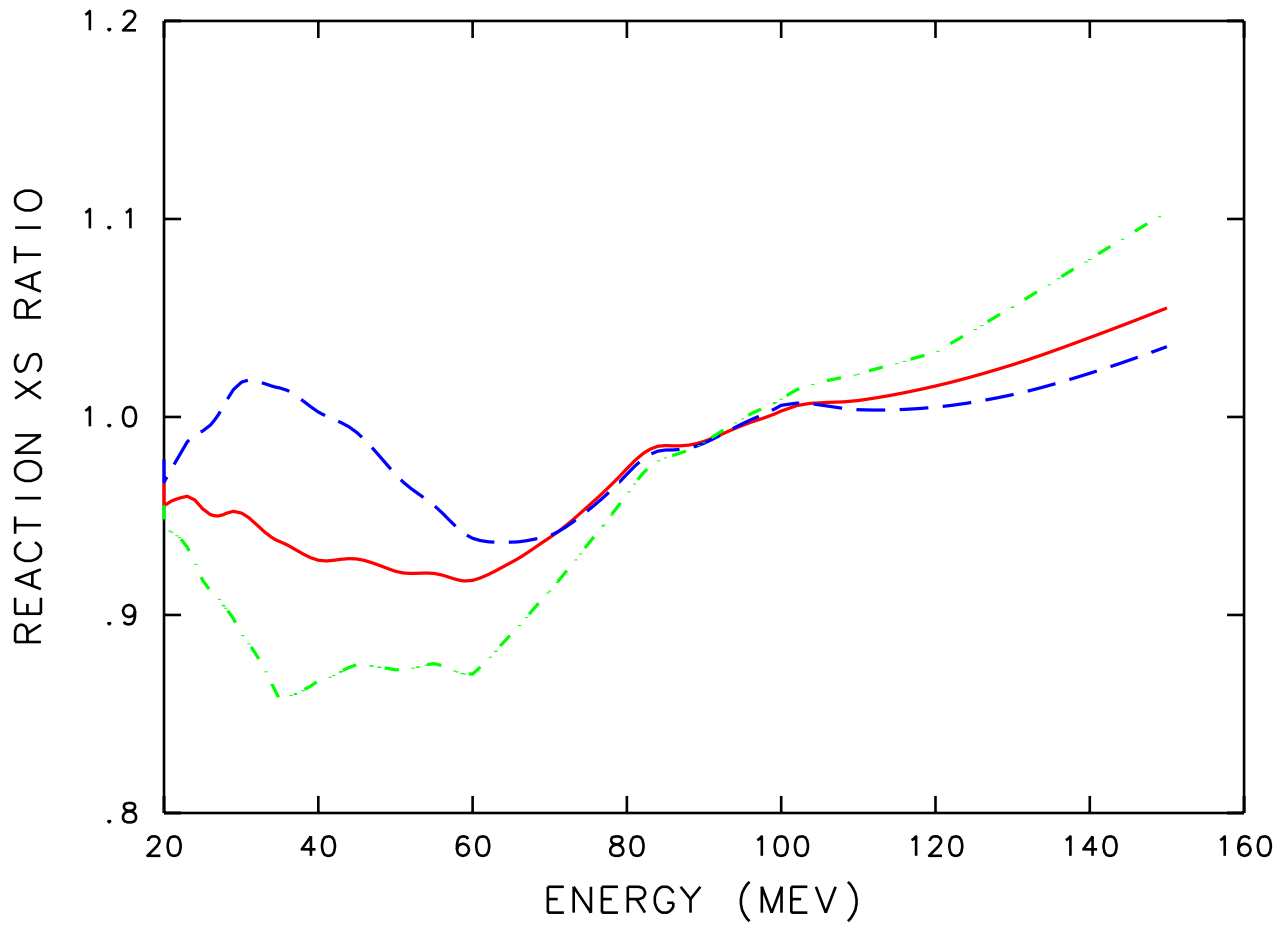


NEUTRONS ON A = 207 Z = 82

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES

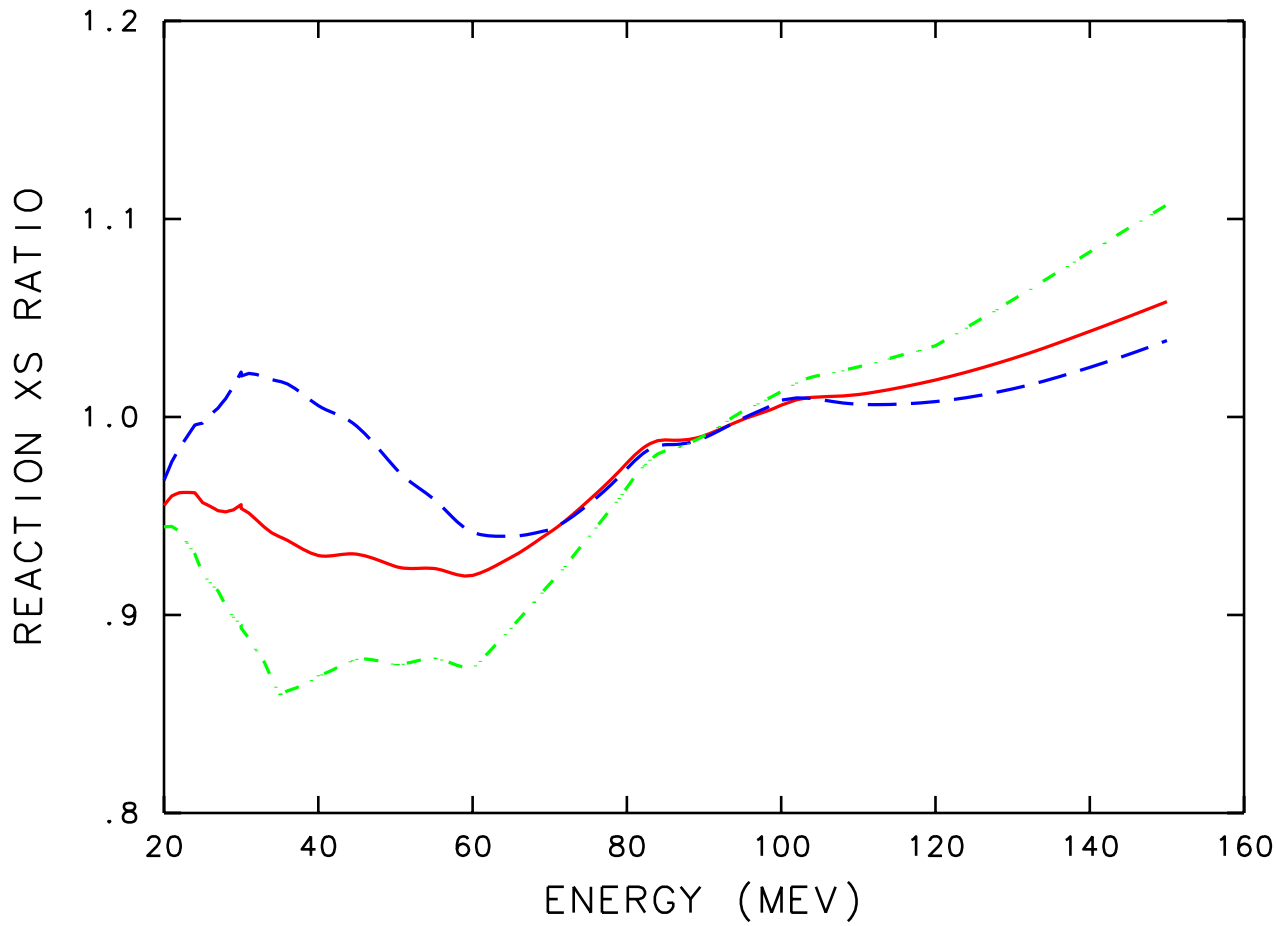


NEUTRONS ON A = 208 Z = 82

FLUKA: BLUE LONG DASH NASA: RED SOLID

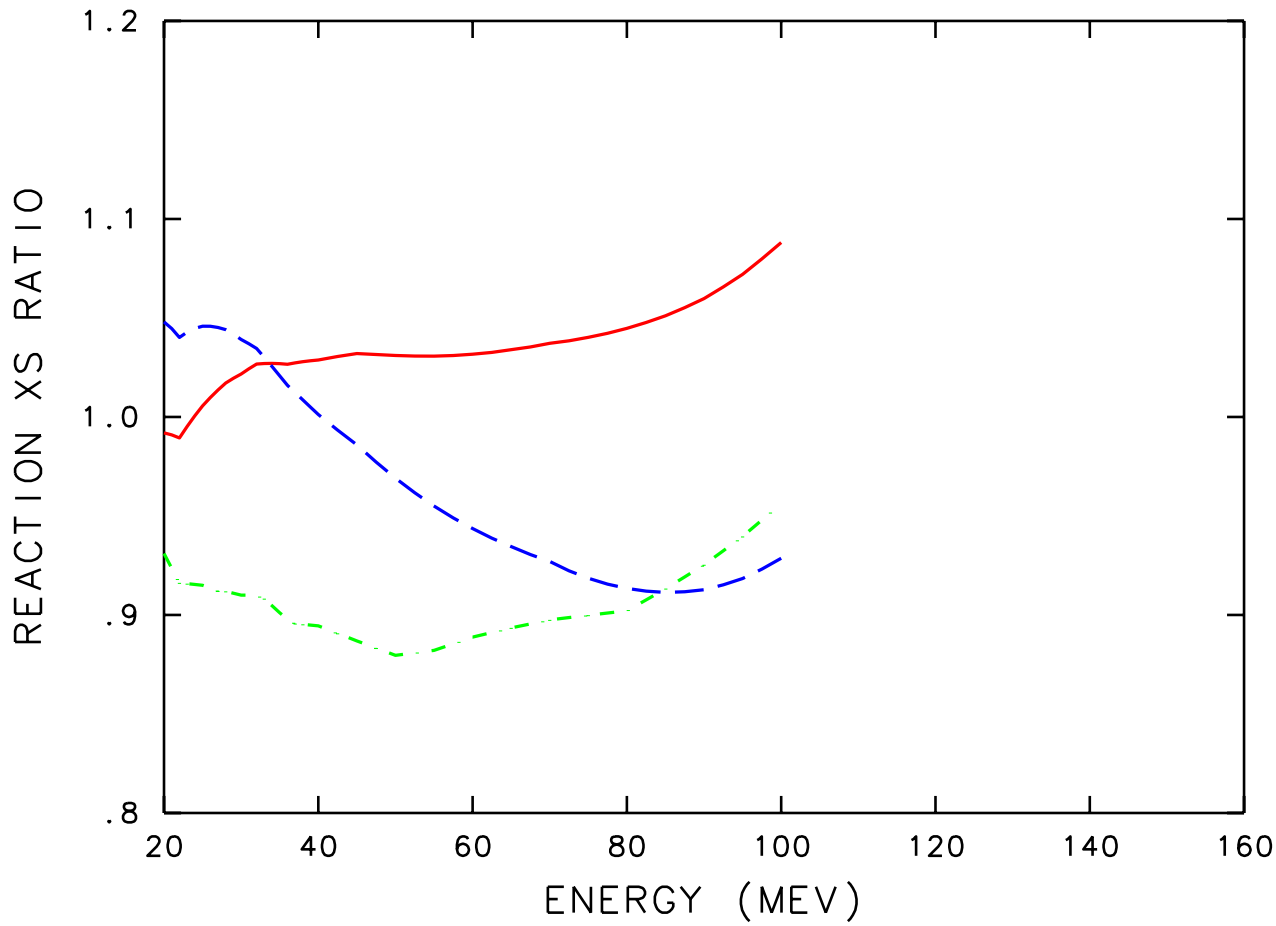
B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES



NEUTRONS ON A = 238 Z = 92

FLUKA: BLUE LONG DASH NASA: RED SOLID

B&P: GREEN DOT-DASH

COMPARISON TO MCNPX LIBRARIES