

Function for converting temperature from ITS-68 to ITS-90

FRAME = 0

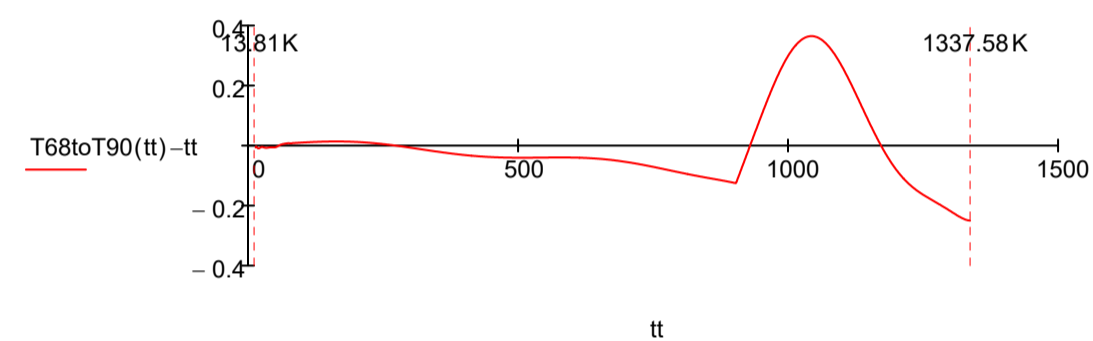
```
T68toT90(T) := "Function for converting temperature from ITS-68 to ITS-90"
return "T must be from 13.81K to 1337.58K" if T < 13.81K ∨ T > 1337.58K
if 13.81K ≤ T < 83.8K
  a ← (-0.005903 0.008174 -0.061924 -0.193388 1.490793 1.252347 -9.835868 1.411912 25.277595 -19.183815 -18.437087 27.000895 -8.716324)T
  return ∑i = ORIGINORIGIN+12 [ ai · ( (T - 40K) / 40K )i-ORIGIN ] K + T
if 83.8K ≤ T < 903.89K
  b ← (0 -0.148759 -0.267408 1.080760 1.269056 -4.089591 -1.871251 7.438081 -3.536296)T
  return ∑i = ORIGIN+1ORIGIN+8 [ bi · ( (T - 273.15K) / (630 · K) )i-ORIGIN ] K + T
if 903.89K ≤ T < 1337.58K
  c ← (-0.00317 -0.97737 1.25590 2.03295 -5.91887 -3.23561 7.23364 5.04151)T
  return ∑i = ORIGINORIGIN+7 [ ci · ( (T - 1173.15K) / (300 · K) )i-ORIGIN ] K + T
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T68toT90(80K) = 80.007407K T68toT90(300K) = 299.9932615845866K T68toT90(1000K) = 1000.2986900343285K

Function for converting temperature from ITS-68 to ITS-90

T68toT90(10 °C) = 9.998 °C

tt := 0K, 1K .. 1400K



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