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SENSOR SERIAL NUMBER: 0269
 CALIBRATION DATE: 18-Jan-24

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.711542e-004
 a1 = 2.393491e-004
 a2 = 1.652851e-007
 a3 = 8.347663e-008

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0001	754426.0	1.0002	0.0001
4.5000	643508.0	4.4999	-0.0001
15.0000	407320.7	15.0001	0.0001
18.5000	351927.2	18.5001	0.0001
24.0000	281383.4	23.9996	-0.0004
29.0000	230996.8	29.0003	0.0003
32.5000	201873.7	32.4999	-0.0001

n = Instrument Output (counts)

$$\text{Temperature ITS-90 (°C)} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$$

Residual (°C) = instrument temperature - bath temperature

