

## CORRIGENDUM

# Effect of ion temperature on ion-acoustic solitons in a two-ion warm plasma with adiabatic positive and negative ions and isothermal electrons

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In the above mentioned paper, table 1 is incorrect and the correct version is given below. Thus the result which was there obtained, namely that the coefficient of the nonlinear term of the modified KdV equation becomes negative, is not correct and, in fact, the coefficient is *always positive*.

$Q$	$\sigma$	$n_{\beta c}$	$A$	$C$	Amplitude	Width
0.25	0	0.0358	1	7.3628	0.451	1.414
	0.025	0.0191	0.9170	20.520	0.282	1.354
	0.050	0.8455	0.8455	66.147	0.164	1.300
0.476	0	0.1140	1	3.0334	0.703	1.414
	0.025	0.1016	0.9360	4.7147	0.583	1.368
	0.050	0.0873	0.8797	7.3652	0.232	1.324
0.887	0	0.3092	1	1.1922	1.121	1.414
	0.025	0.3256	0.9964	1.3914	1.062	1.383
	0.050	0.3400	0.9178	1.5918	1.013	1.355
1	0	0.3660	1	1	1.225	1.414
	0.025	0.3900	0.9595	1.1328	1.175	1.385
	0.050	0.4123	0.9240	1.2978	1.136	1.359
4	0	1.2368	1	0.2626	2.390	1.414
	0.025	1.3194	0.9749	0.2784	2.351	1.396
	0.050	1.3983	0.9526	0.2912	2.325	1.380
32	0	1.8794	1	0.1797	2.922	1.414
	0.025	1.9752	0.9763	0.1877	2.861	1.397
	0.050	2.0655	0.9550	0.1983	2.814	1.382

TABLE 1. Amplitude and width of the fast ion acoustic soliton when  $n_{\beta_0} = n_{\beta c}$  (critical negative ion density) for different values of mass ratio  $Q$  and ion temperature  $\sigma$  for the prescribed value of  $U(U = 0.25)$ .