

Erratum for “Deligne’s notes on Nagata compactifications”

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There are two small (but fixable) errors in [1] (entirely my fault) that we address here. I am grateful to Andrea Parri and Johan de Jong for pointing out these respective mistakes that I made.

1. The first error occurs in the final few paragraphs of Case 1 of the proof of [1, Thm. 2.4]. I made an incorrect choice of the ideal along which to form a certain blow-up. The problem is that the map as I wrote it on the blow-up along this ideal does not make sense. To give a correct choice of ideal for which the required map makes sense with the properties that are needed, we proceed as follows. In the notation used there, the ideal $I \subseteq A$ should have been defined to be the ideal $I = (u_i^N u_{i'}^N) + (g_{i,i',j})$ generated by all products $u_i^N u_{i'}^N$ and all $g_{i,i',j}$ (and \mathcal{I} is taken to be the quasi-coherent ideal sheaf on $X = \text{Spec}(A)$ associated to this new choice of ideal), rather than the ideal $(u_i^N) + (g_{i,i',j})$ generated by all u_i^N and $g_{i,i',j}$ as in [1].