There are no P-points in Silver extensions

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We prove that after adding a Silver real no ultrafilter from the ground model can be extended to a P-point, and this remains to be the case in any further extension which has the Sacks property. We conclude that there are no Ppoints in the Silver model. In particular, it is possible to construct a model without P-points by iterating Borel partial orders. We also show that the same argument can be used for the side-by-side product of Silver forcing. This provides a model without P-points with the continuum arbitrary large.

Joint work with Osvaldo Guzmán.