

Superlattice obtained by layer transfer, structure and
fabrication process

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ABSTRACT

The invention relates to a process (600) for fabricating a structure comprising a stack of superlattices, comprising the steps of forming (610_{Car}) two superlattices (Stck1, Stck2) on
10 respective substrates, each superlattice being formed from a stack of channel layers in alternation with sacrificial layers; forming (620_{Car}, 620_{Don}) respective cap layers (Cap1, Cap2) on the two superlattices (Stck1, Stck2); and joining
15 (660) the two superlattice lattices (Stck1, Stck2) by placing in contact their respective cap layers (Cap1, Cap2), which together form a bonding layer, the first cap layer (Cap1) and the second cap layer (Cap2) each having a thickness of less than 2 nm.

20 Fig. 6