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**Einstein condensation**  
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### **Degenerate N Doping Of Few**

We report here the first degenerate n-doping of few-layer MoS<sub>2</sub> and WSe<sub>2</sub> semiconductors by surface charge transfer using potassium. High-electron sheet

densities of  $\sim 1.0 \times 10^{13} \text{ cm}^{-2}$  and  $2.5 \times 10^{12} \text{ cm}^{-2}$  for MoS<sub>2</sub> and WSe<sub>2</sub> are obtained, respectively.

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ABSTRACT: We report here the first degenerate n-doping of few-layer MoS<sub>2</sub> and WSe<sub>2</sub> semiconductors by surface charge transfer using potassium. High-electron sheet densities of  $\sim 1.0 \times 10^{13} \text{ cm}^{-2}$  and  $2.5 \times 10^{12} \text{ cm}^{-2}$  for MoS<sub>2</sub> and WSe<sub>2</sub> are obtained, respectively. In addition, top-gated WSe<sub>2</sub> and MoS<sub>2</sub> n-FETs with selective K doping at the metal source/drain

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Degenerate n-Doping of Few-Layer Transition Metal Dichalcogenides by Potassium

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### **Degenerate n-doping of few-layer transition metal ...**

The potassium doping was achieved by physical vapor deposition onto pre-patterned devices so that electrical measurements could be taken without exposing the devices to air. As one might expect, potassium deposition engenders strong n-type doping and yields massive 2D electron concentrations of  $\sim 1.0 \times 10^{13} \text{ cm}^{-2}$  for K-doped MoS<sub>2</sub> and  $2.5 \times 10^{12} \text{ cm}^{-2}$  for K-doped WSe<sub>2</sub>.

### **Literature Review:**

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### **Figure 2 from Degenerate n-doping of few-layer transition ...**

Literature Review: Degenerate n-Doping of Few-Layer Transition Metal Dichalcogenides by Potassium July 29, 2015 July 29, 2015 / druffeldan / Leave a comment The article I am reviewing is called "Degenerate n-Doping of Few-Layer Transition Metal Dichalcogenides by Potassium" (full citation below).

### **Degenerate doping | 2D materials**

A degenerate semiconductor is a

semiconductor with such a high level of doping that the material starts to act more like a metal than as a semiconductor. Unlike non-degenerate semiconductors, these kind of semiconductor do not obey law of mass action, which relates intrinsic carrier concentration with temperature and bandgap.

### **Degenerate semiconductor - Wikipedia**

here the first degenerate n-doping of few-layer MoS<sub>2</sub> and WSe<sub>2</sub> semiconductors by surface charge transfer using potassium. High-electron sheet densities of  $\sim 1.0 \times 10^{13} \text{ cm}^{-2}$  and  $2.5 \times 10^{12} \text{ cm}^{-2}$  for MoS<sub>2</sub> and WSe<sub>2</sub> are obtained, respectively.

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In this work, we fabricated few-layer WSe<sub>2</sub> FETs with different contact metals (Ti, Co, and Pt) with significant differences in work function and investigated the chemical doping effect by hydrazine solution. Our n-doping process by the dipping method in solution is facile and simple compared to other methods [8–11]. The results show that for Ti- and Co-contacted FETs, hydrazine treatment makes them strongly n-type, and for Pt-contacted FETs, the pristine p-type was converted to n-type.