Surface Origin of High Conductivities in Undoped In_2 3 Thin Films

¹Na i al Re e able E e g Lab a , G lde , C l ad 80401, USA

²N h e e U i e i , E a , Illi i 60208, USA

³O eg S a e U i e i , C alli , O eg 97331, USA

```
I i ic face d
                                   (111)
 I_{2} 3
                                      /A^2. 7^{-26}. 7^{-5}
                     (L) 6.8 0,
7.0 7.6 0.7
                                                          -17,
         . A
2.3 0,
0.2 0
0.6 0
                               2.3,
3.1 0
                           28
   17
                                                        I (111)
                               V^{(111)}
                     I_i
                                                     . A
          V^{(111)}
  •
                                                              )
        .
4
I <sup>(111)</sup>
                     V
```

I I_{2} $_3$ $_6$. $_6$ $_7$ $_6$ -fi Mehd.0Å P -30. T . -31, (. **E** . 2), . **I** , fi (**x** . 2) fi (x . 5) fi (n_b) (η_s) fi , . ., 🗷 . 2, **\sigma** . (1) (2), -3, 5,)-5,6,8 10, -[1,12. 10^{20} I _{2 3} -fi

-19,

fi

-10.

0.3()0()-