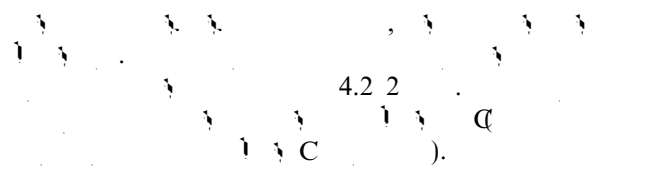
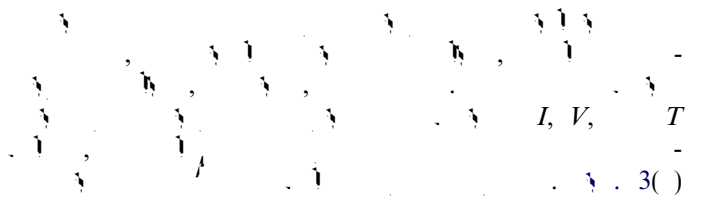




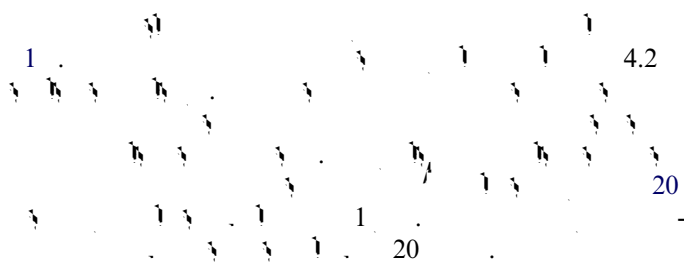


### 3. *Conduction mechanisms*

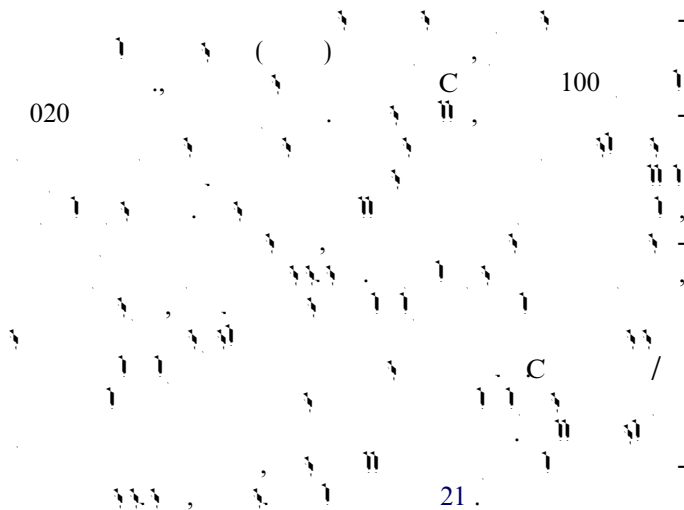
#### 3.1. *Conduction mechanisms*



#### 2.3. *IETS measurement*

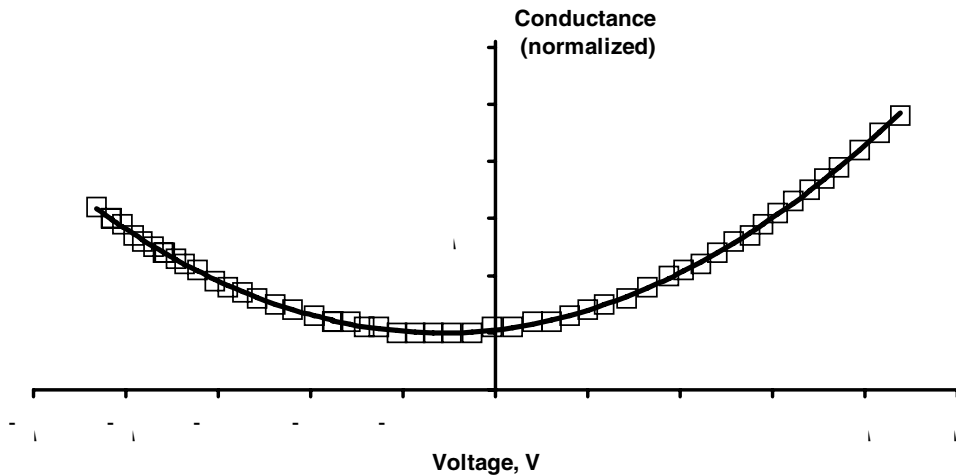


#### 2.4. *MRAIRS*

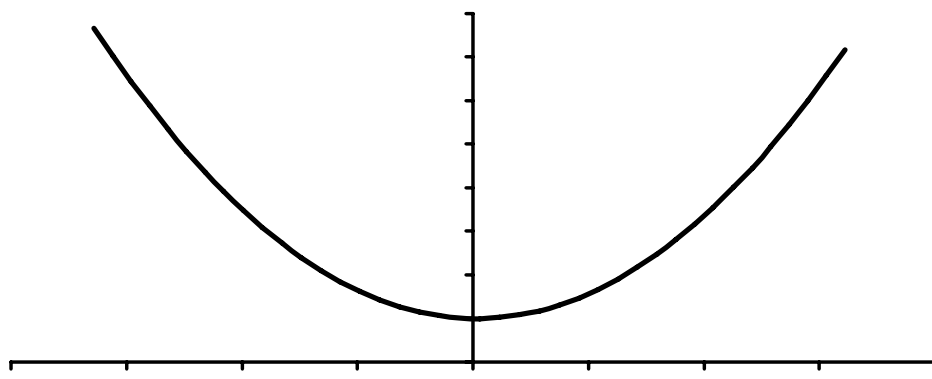








(3.15)  $G(V, T) = G_0 \left( 1 + \frac{eV}{k_B T} \right)^2$



(3.15)  $G(V, T) = G_0 \left( 1 + \frac{eV}{k_B T} \right)^2$

3.  $\phi_1 = \phi_2$

$G(V, T)$

3.3. IET, IR, and calculated spectra

$C / \dots$   $\phi / \dots$   $( ) 1/1 \dots / 1-$   $C$   $1110$   $0^{-1}$



