

V 46 - Faraday - Effekt

undotiert (hochrein), $d = 5,11 \text{ mm}$ (eventuell 90° absiechen)

Wellenlänge

br

Polung

r_b falsch

1,06 μm	143 $143^\circ 25'$	$153^\circ 50'$	$167^\circ 00'$
1,29 μm	$148^\circ 00'$	$155^\circ 05'$	$164^\circ 00'$
1,45 μm	154 $148^\circ 20'$	$154^\circ 25'$	$160^\circ 15'$
1,72 μm	$151^\circ 00'$	$155^\circ 05'$	$160^\circ 00'$ kon. Probe
1,96 μm	$157^\circ 30'$	$160^\circ 30'$	$164^\circ 40'$
2 156 nm	$159^\circ 10' 5'$	$162^\circ 00'$	$169^\circ 45'$
2,34 μm	$182^\circ 50'$	$185^\circ 30'$	$187^\circ 00' / 229^\circ 00'$
2 510 nm	$193^\circ 30'$	$215^\circ 05'$	$218^\circ 35'$
2,65 μm	$239^\circ 30'$	$242^\circ 30' 00'$	$248^\circ 15'$

GaAs (n-dot.) $N = 1,2 \cdot 10^{18} / \text{cm}^3$, $d = 1,36 \text{ mm}$

1,06 μm	$148^\circ 20'$	$158^\circ 00'$
1,29 μm	$150^\circ 00'$	$157^\circ 20'$
1,45 μm	$146^\circ 35'$	$154^\circ 50'$
1,72 μm	$149^\circ 40'$	$156^\circ 15'$
1,96 μm	$250^\circ 35'$	$161^\circ 50'$
2 156 nm	$249^\circ 10'$	$164^\circ 10'$
2,34 μm	$223^\circ 20'$	$191^\circ 10'$
2 510 nm	$213^\circ 10'$	$203^\circ 15'$
2,65 μm	$239^\circ 45'$	$249^\circ 40'$

$\approx 100^\circ$

C. Linder

n-dot.	$N = 2,8 \cdot 10^{16} \text{ cm}^{-3}$ $d = 1,296 \text{ mm}$	br	rb
1,06 μm		$150^{\circ} 10'$	$159^{\circ} 30'$
1,29 μm		$150^{\circ} 35'$	$157^{\circ} 20'$
1,45 μm		$150^{\circ} 10'$	$159^{\circ} 00'$
1,72 μm		$149^{\circ} 20'$	$161^{\circ} 10'$
1,96 μm		$154^{\circ} 25'$	$164^{\circ} 30'$
2156 nm		$156^{\circ} 15'$	$168^{\circ} 00'$
2,34 μm	$\frac{1}{10}$	$176^{\circ} 00'$	$179^{\circ} 05'$
2510 nm		$178^{\circ} 00'$	$196^{\circ} 10'$
2,65 μm		$151^{\circ} 00'$	$158^{\circ} 40'$
			$174^{\circ} 45'$

\nearrow 10-fach
verstärkt

Hall-Sonde

Abstand (mm) Wert (mT)

114 396 Maximum

115 395

116 393

117 386

118 376

119 364

120 345

121 323

122 293

123 262

124 227

125 190

126 153

127 125

C. Luder

113	396
112	394
111	390
110	382
109	372
108	357
107	339
106	314
105	289
104	252
103	215
102	184
101	150
100	116

Winkel in Radiant

Winkel pro Probenlänge $\rightarrow \frac{\text{rad}}{\text{m}}$

Brechungsindex recherchieren

mess mit Literaturwert vergleichen

E-Mail wenn hochgeladen

C. Liders