Fig. 30 Instantaneous Hydrodynamic Pressure Distribution
(c) $\lambda/L=0.75$, $\chi=90^\circ$

(d) Phase Difference in Hydrodynamic Pressure

Fig. 30 Instantaneous Hydrodynamic Pressure Distribution
Fig. 31 Instantaneous Hydrodynamic Pressure Distribution
(c) $\lambda/L = 1.00$, $\chi = 90^\circ$

<table>
<thead>
<tr>
<th>S.S.81/2</th>
<th>MARKS</th>
<th>HEADING ANGLE</th>
<th>SHIP SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPERIMENT</td>
<td>$\lambda/L = 1.00$</td>
<td>180°</td>
<td>3.64 Kn</td>
</tr>
<tr>
<td></td>
<td>$\lambda/L = 1.00$</td>
<td>135°</td>
<td>6.20 Kn</td>
</tr>
<tr>
<td></td>
<td>$\lambda/L = 1.00$</td>
<td>90°</td>
<td>9.65 Kn</td>
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</tbody>
</table>

(d) Phase Difference in Hydrodynamic Pressure

Fig. 31 Instantaneous Hydrodynamic Pressure Distribution

(292)
Fig. 32 Instantaneous Hydrodynamic Pressure Distribution
**Experiment**

<table>
<thead>
<tr>
<th>Wave Length (m)</th>
<th>308.8 (1.25L)</th>
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</thead>
<tbody>
<tr>
<td>Wave Height (m)</td>
<td>12.35 (L/20)</td>
</tr>
<tr>
<td>Heading Angle</td>
<td>90°</td>
</tr>
<tr>
<td>Ship Speed (Kn)</td>
<td>10.31</td>
</tr>
</tbody>
</table>

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(c) \( \lambda/L = 1.25, \chi = 90° \)

---

(d) Phase Difference in Hydrodynamic Pressure

**Fig. 32** Instantaneous Hydrodynamic Pressure Distribution

<table>
<thead>
<tr>
<th>S.S.8/2</th>
<th>Marks</th>
<th>Heading Angle</th>
<th>Ship Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>λ/L=1.25</td>
<td>EXPERIMENT</td>
<td>180°</td>
<td>6.60 Kn</td>
</tr>
<tr>
<td>m</td>
<td>S</td>
<td>135°</td>
<td>7.51</td>
</tr>
<tr>
<td>m</td>
<td>N</td>
<td>90°</td>
<td>10.31</td>
</tr>
</tbody>
</table>
Fig. 33 Instantaneous Hydrodynamic Pressure Distribution
Fig. 33 Instantaneous Hydrodynamic Pressure Distribution

(c) \( \lambda/L = 0.50, \; \chi = 90^\circ \)

Fig. 34 Instantaneous Hydrodynamic Pressure Distribution

(a) \( \lambda/L = 0.75, \; \chi = 180^\circ \)
Fig. 34 Instantaneous Hydrodynamic Pressure Distribution
Fig. 35 Instantaneous Hydrodynamic Pressure Distribution
Fig. 35 Instantaneous Hydrodynamic Pressure Distribution

Fig. 36 Instantaneous Hydrodynamic Pressure Distribution
Fig. 36 Instantaneous Hydrodynamic Pressure Distribution
Fig. 37 Instantaneous Hydrodynamic Pressure Distribution
WAVE LENGTH (m) 3.705 (1.50L)
WAVE HEIGHT (m) 12.35 (L/20)
HEADING ANGLE 9.0°
SHIP SPEED (kn) 10.75

AT 2.25m UNDER W.L.,
ON SHIP SIDE

(c) λ/L = 1.50, θ = 90°

Fig. 37 Instantaneous Hydrodynamic Pressure Distribution